

**Nett Warrior (NW) STRAP
Increment 1**

(Version 1.3)

Date: 05-21-2015

MCoE - Infantry & Armor School



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE
1 KARKER STREET
FORT BENNING, GEORGIA 31905-5000

ATZK-TD

MAY 21 2015

MEMORANDUM FOR RECORD

SUBJECT: Nett Warrior (NW) System Training Plan (STRAP)

1. References:

- a. TRADOC Regulation 350-70, Army Learning Policy and Systems, 6 December 2011.
- b. Nett Warrior (NW) Increment 1, Capability Development Document (CDD) Waiver In Lieu of a CPD Version 3.5 (December 2010), CARDS # 02095, Approved: 5 Oct 11.
- c. Army Regulation 350-1, Army Training and Leader Development, 18 December 2009.

2. I hereby approve this Nett Warrior (NW) System Training Plan. A copy of the plan will be posted to the Central Army Registry within 30 days of the approval date.

3. Point of contact is Mr. Earl Maddox, Systems Training Branch, Individual Systems and Training Division, Directorate of Training and Doctrine, DSN 835-9775, Commercial (706) 545-9775, e-mail earl.f.maddox.civ@mail.mil.

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Encl
System Training Plan (STRAP)
for Ground Mobility Vehicle (GMV)

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This system training plan (STRAP) is preliminary. Front-end analysis (mission, task, and job) is ongoing. The Maneuver Center of Excellence (MCoE) will amend and update this STRAP as more information becomes available.

The MCoE is the proponent for this STRAP. Send comments and recommendations directly to Email: earl.f.maddox.civ@mail.mil

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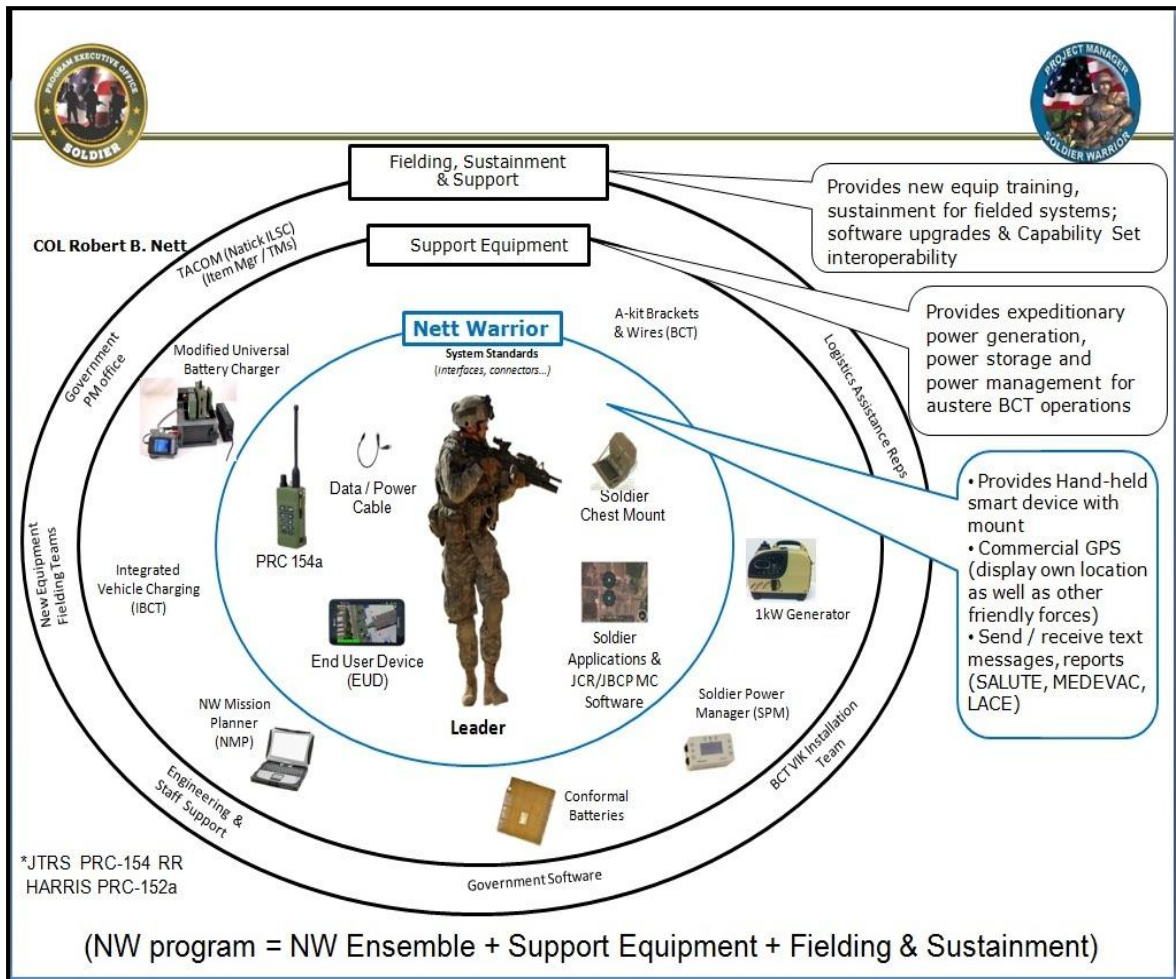
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** This STRAP supersedes Ground Soldier System (GSS) STRAP dated 3 Feb 10.

1.0 System Description



Nett Warrior (NW) Increment I (formerly known as the Ground Soldier System [GSS]) is a subcomponent of the Soldier as a system (SaaS) family of Soldier capabilities. The SaaS process modernizes and integrates all Soldier capabilities, either ground, mounted or air, to support current and future joint operations. The NW is employed worldwide during peacetime, conflict and war; in both hostile and friendly environments; and in a variety of terrain and climatic conditions. The NW enables the individual leader to operate in tactical voice and data networks with other NW equipped leaders. NW equipped leaders perform missions requiring connectivity to their supporting platforms, but must have survivability and communications independent of Soldier platforms. In the absence of a support platform, an alternate routing of information is automatically performed. Ground Soldiers in close combat and in complex terrain bear the greatest vulnerabilities. Vehicle platforms and Air overmatching capabilities against threat systems greater parity exists

with the enemy on the ground. This is in part due to programs for multiple Soldier system components not being integrated into lessons. The NW provides a capability that includes small unit mission command, situational awareness (SA)/ situational understanding (SU), embedded training (ET), lethality, mobility, force protection, and sustainability to fill dismount Soldier Warfighting Functions (WfFs).

NW contributes and supports the following WfFs:

Mission Command. NW interoperability with Joint Battle Command - Platform (JBC-P) or Joint Capabilities Release (JCR) increases leader confidence as they maneuvered their units during mounted and dismounted operations. Current capabilities limit the small unit's current area of influence (AI). NW provides the platoon information to quickly react to new intelligence and dynamically re-task elements within the platoon. Leaders effectively used tactical messaging reports (SALUTE, MEDEVAC, and LACE) along with the free-text messaging reporting features. NW system provides leaders and subordinates more information for mission planning and allows leaders to make faster decisions to support dismounted operations (defensive, offensive and stability operations) during day or night operations.

Intelligence. NW improves mission command (MC) at the Co and below level by displaying position location indicator (PLI), to enhance situational awareness (SA) and situational understanding (SU) of friendly forces improving development of the intelligence estimate.

Movement and Maneuver. NW digitizes the mission planning process enabling leaders to reduce the amount of time it takes to prepare for a mission. NW provides near real-time friendly PLI, gridded reference graphics (GRG), and overlays allowing leadership increased SA and intelligence updates when conducting combat missions. NW allows leaders to alter the scheme of maneuver in real time via fragmentary orders.

NW contributes and supports the following capability areas:

Training. NW EUD provides an effective user interface design that is common to a cell phone with applications that they use on a daily basis. The NW system

the trainability issues are eliminated for Soldiers by simplifying system complexity and collective training time for leaders. NW includes an embedded training (ET) capability that allows leaders and subordinates to quickly set up, operate, troubleshoot and maintain the NW system. Soldiers utilize the quick reference guide to facilitate resolution of issues encountered during operations.

Lethality. NW provides a unique capability to improve the small unit's current area of influence (AI). NW provides platoons and squads with the capability for immediate mutual support, cooperative engagement, precision, speed, and mass fires against immediate targets, when required in a timely manner. NW provides access to external assets during combined arms maneuver and wide area security missions.

First Unit Equipped (FUE). The first BCT completes new equipment training and establishes the system's FUE in the second quarter of FY 13. NW will be upgraded after each Network Integration Evaluation (NIE) 14.2, 15.2 and 16.1 functional test with changes to the system software and applications from Soldiers input. Then implemented changes will be updated to the training system plans.

2.0 Target Audience

Target Audience. The first units issued the NW configuration will be Infantry platoons and Scout platoons from the IBCT, ABCT, and SBCT respectively. The first initial increment going to Infantry platoons and Scout platoons of the IBCT. Fielding priorities and subsequent distribution plans are to every leadership position starting at the team leader through Brigade commander and will be further developed and refined as platoon TTPs and lessons learned are validated.

Future Employment of the NW System. In addition to the BCTs, Other organizations such as SOCOM, Military Police platoons, and Engineer platoons will be issued NW as the systems become available.

NW System Training professional military education (PME). NW system operators are trained through new equipment training (NET). Maintenance training of the NW system will be conducted at the operator level. The NW program utilizes a repair through replacement concept, eliminating the need for additional maintenance training. For more information on NW training, refer to paragraphs 5, System Training Concept and 6, Institutional Training Domain within this document.

The target audience for equipping NW to the Army is shown in Table 1. This table contains a listing by military occupation specialty (MOS) of the Soldiers within armor, infantry and Stryker brigade combat teams (A/I/S BCTs) that are expected to be issued and to operate the NW system and mission command (MC) systems.

Table 1: Target Audience.

Target Audience by Branch (IAW BOIP)	Officer MOS	Enlisted MOS
Ranger	01A00, 02B00	00L60, 00T60, 00R60, 11B2G, 11B3G, 11B4G, 11B1P (E4) Sniper, Scout, SBCT Driver & AA Spec

Infantry	11A	11B 20, 30, 40 & 11B2U, 11B3U, 11B4U 11C 20, 30, 40 & 11C1P, 11C2U, 11C3U, 11C4U 11Z & 11B10 series RTOs,
Engineer	12A 12B	12B10, 20, 30, 40 12B 10,20,30,40 12C 30 12N 30/40 12X, 12Z & 12B4U
Fires	13A 131AP (W2)	13B 40 13F 20, 30, 13F1P, 13F2U, 13F3U, 13F4U 13Z
Armor	19A, 19C	19D 20, 30, 40, 19D2G, 19D3G 19K40 19Z
Military Police	31A	31B 20, 30, 40
Chemical	74A	74 D 20, 30, 40
Signal		25A 25B 25B1P, 25B1V, 25B3U 25C 20, 30, 40,25C1V,25C1P,25C2 25E3U, 25N2U 25S1P, 25S2P, 25S2U, 25S1V, 25S4P 25U1P
Military Intelligence	35D 350F0 (W2) 350FP (W2)	35F 20, 30, 40 35F3U, 35F4U 35L2U, 35L3U, 35L4U 35M 35M2L, 35M3L, 35M4L, 35M1P, 35M2U, 35M3U, 35M4U 35N1S, 35N2U, 35N3U, 35N4U 35P 30, 40 35X
HUMINT	38A 351MO (W2) 351MP (W2)	38B4U 42A3U 42A4U

	42H REGT S-1	
Medical Physician	61N 65D	68J3U
Medic Treatment	70B67 70H67	68W 10, 20, 30, 40 68W2U, 68W3U, 68W4U
CBRN	74A	74D 30, 40
Transportation	88A	88M40 88M4U
Sustainment	90A 91A 92A 9115A0 (W3) 919A0 (W2)	91A30, 91B30, 91H30, 91P30, 91X40, 91Z5M 92A5M, 92F40, 94Z50 91B1P, 91X4U 92A4U, 92Y4U, 92Y5U

3.0 Assumptions

Each Army Center of Excellence (CoE) is responsible for training a NW targeted MOS or functional area (FA) and will establish NW training integration into all professional military education (PME), and appropriate functional courses 12 months after completion of the first unit equipped (FUE).

The Product-Manager (PM) SWAR is responsible for fielding and sustainment type maintenance support during all training conducted in support of the NW new equipment training (NET).

PM SWAR will ensure funds are available to support Training and Doctrine Command (TRADOC) participation in training development, integrated product team (IPT) meetings, in-process reviews (IPR), post fielding training effectiveness analysis (PFTEA), and contractor training in support of developmental and operational tests, instructor and key personnel training (IKPT), and new equipment training (NET).

PM SWAR will provide operational systems, and any TADSS training aids which approximate the weight, size and color of the system or actual LRUs. The PM will provide all support required facilitating the Doctrine, Organization, Leader, Training, Materiel, Personnel, and Facilities (DOTML-PF) review of the NW system.

4.0 Training Constraints

Constraint Type	Probable Impact	Mitigating Efforts
Manpower (institutional training)	Insufficient number of instructors to train class load and limited course time available	Increased reliance on contract instructors.
Manpower (training, doctrine, and tactics)	Insufficient number of instructors. Insufficient virtual training of mounted and dismounted force-on-force training. Insufficient course time allotted	Increased burden on instructors due to excessive class load. Increased usage of live force-on-force training for mounted and dismounted Soldiers.
Personnel Capabilities	TBD	
Budgetary	Restricted vehicle movement (OPTEMPO) and training on real terrain.	Increased reliance on stand-alone manpower (institutional training).
Training Equipment availability	Students will not receive training on individual systems.	Increase number of systems to allow each student to have their own system.
Equipment Density	Student to equipment ratios cannot be met or maintained.	Decrease class size, increase frequency.
Total number of personnel to be trained	Small training loads will not produce instructor requirements to train a course.	Slip course start dates, functional training, and mobile training teams.
Unit and command-unique requirements	TBD	
Training facility requirements	TBD	
Safety hazards and restrictions	TBD	
Noise abatement requirements	TBD	

Environmental requirements	N/A	
Support services (contractor support)	System failures degrade or halt training.	CLS on system maintenance.
Command Guidance	TBD	

It is imperative that sufficient quantities of NW systems and required accessories are provided to the institutions for training.

Changes in system hardware and software, delays in production, and testing, could affect training. TRADOC schools must have equipment in sufficient time to prepare instructors to execute training.

5.0 System Training Concept

The NW system training concept is based on U.S. Army Learning Concept 2015 (ALC 2015) and is conducted in accordance with traditional Army training policy: I&KPT and NET for equipment introduced to the field (AC/RC), institutional training for all PME, unit sustainment training, and collective training in the units. NW system training is conducted using an integrated training environment (live, virtual, and constructive and gaming). This approach provides Soldiers, leaders, and units with training tools that will enable them to execute decisive action operations.

Active Army.

Institutional Domain. Operator, maintenance, leader, and support personnel training are conducted within the live, constructive and virtual training domains using a variety of TADSS. Interactive Multimedia Instruction (IMI) will be used in the Non-Commissioned Officer System (NCOES), Officer Education System, Warrant Officer Basic Courses and initial officers and maintainer one station unit training at an institutional setting within one of three affected schools and/or Center of Excellence (CoE). IMT courses are considered TATS courses (Total Army Training System) as they are unique courses attended by Active Army and Reserve component Soldiers at the same applicable active-duty training site. PME, functional and ASI-producing courses are developed and offered at proponent service schools.

Operational Domain. Unit training includes transition training for new equipment, unit sustainment of combat critical skills, and collective training. Training includes force-on-force exercises conducted in live, virtual, and constructive settings while using a variety of training aids, devices, simulations, and simulators. Units train in live force-on-force (FOF) exercises at home station, at combat training centers (CTCs), during joint training exercises, and at mission training complex (MTC). Training is reinforced in the close combat tactical trainer utilizing a system similar to the Dismounted Soldier Training System (DSTS). Commanders continually assess the ability of their units to employ the NW during all training events.

Self-Development. This applies to Active Army and Reserve enlisted

Soldiers, noncommissioned officers, commissioned officers, and warrant officers. Multimedia training and distributive learning are used as mainstays of self-development training.

Reserve Component.

Institutional Domain. The training for RC (Army National Guard and U.S. Army Reserve) units equipped with the NW is the same as the Active Army component.

Operational Domain. The training for Active Army and RC units is the same. However, RC units are limited by the number of days available for inactive duty for training (IDT), unit training assemblies, and annual training periods. In light of this fact, RC Unit commanders must plan, prepare, and execute individual and collective training to assess unit readiness.

Self-Development. This is the same for Active Army and Reserve.

Maintenance Training. A maintenance training capability is required to support institutional and operational units. All NW spares are maintained at the battalion communications section (S-6) and are pushed down to the company communications section. The system capability shall be exportable to direct support for a one-on-one trade replacement. A battalion 25B and 25U support repair Soldier can download maps and new software upgrades utilizing the NW Mission Planner to provide constant updated software on the NW systems in the unit.

NW will leverage the Army Training Network (ATN), Digital Training Management System (DTMS) and the Army Learning Management System (ALMS) to deliver interactive media instruction (IMI) to the soldier. NW will impact the Army's emerging Training Support Enterprise (TSE) by exploiting the ATN, the Army Games for Training (AGFT), and all MTC resources.

Initially, NW deploys training materials using the ATN NW education and training portal to allow Soldiers and leaders access to NET and DTT products from any location. Training data includes, but is not limited to NW assembly,

operation, maintenance, troubleshooting, and leader development. The portal also will store the stay-behind training support package (TSP) to help units maintain their skills and train new subject matter experts. As the Army's web-based training infrastructure matures, the program expands the available products to include access to all IMI products to enable remote prerequisite training and self-development activities.

MTCs are a network of Army-run facilities worldwide that use live, virtual, and constructive, and gaming capabilities to provide more effective and efficient mission command, small unit, and leader development training through live, immersive and adaptable venues that prepare Soldiers and leaders to excel in complex and challenging operational environments. MTCs provide units direct access to the AGFT and other training platforms.

MTCs allow NW-enabled units to build and sustain mission command proficiency using the system's capabilities through virtual, constructive, or blended training events combining live, virtual, and constructive environments. MTCs also provide an effective venue for commanders to conduct AGFT-supported leader training and development: allowing focused leader task training and certification prior to full unit collective training events. Within the institutional domain, COEs with an MTC facility may exploit the capability through efficient resource scheduling practices to support simulation-driven mission command and small-unit collective task exercises for their PME courses.

5.1 New Equipment Training Concept (NET)

The materiel developer will provide a new equipment training Team (NETT). The NETT provides operator training, field maintenance and sustainment level maintenance training to active (all BCTs) and reserve component from Team leader up receiving the NW system. Operator and maintainer training are conducted at designated fielding sites per the NW fielding plan. The material developer provides exportable new equipment training test support package (NETTSP) that supports NET for operator, maintainer, and unit sustainment training. The NETTSP are developed concurrently with the NW system hardware and software (as applicable), approved by MCoE, FCoE, and Cyber CoE and validated during operational testing and evaluation (IOT&E), and

in place when system fielding begins. The NETTSP package includes a complete set of digital training materials that include electronic technical manuals (ETM)/interactive electronic technical manuals (IETMS), task list, program of instruction, lesson plans, student guides, and a web-based interactive multimedia instruction distributed training vehicle (IMI DTV) package on the operation and troubleshooting of the NW system. The IMI DTV is used in conjunction with the NET fielding TSP to facilitate unit sustainment training. The web-based program continues until all applicable Army units (active-duty and RC) are fielded and personnel are trained.

Operator level maintenance and basic troubleshooting tasks are minimal. NW organizational level maintenance tasks are performed at the company or battalion level by a 25U. These tasks are largely confirming damaged or nonfunctional components, prior to evacuating the component to depot level maintenance and initiating a supply action to replace the component with on-hand assigned stockage level (ASL). In addition to basic operator level tasks, NET includes two distinct paths of instruction for unit selected personnel: a maintainer and mission planner (MP). These specialized training modules are designed to train designated unit and institutional personnel to be the subject matter expert (SME) for the NW system. Graduates provide the unit an organic capability to assist the end user in the installation, operation, maintenance, and troubleshooting of the NW system and communications architecture after the completion of fielding NW.

Operator and maintainer NET will be conducted by NET trainers under the supervision of PM-SWAR and the oversight of the MCoE DOTD. A team (32 personnel, consisting of 30 trainers and 2 logistics personnel) supports fielding and NET of the NW system. This maintains 6 to 8 students to 1 instructor ratio.

BCT level units receive new equipment training, in a specific amount of time depending upon the type of BCT:

- ABCT is completed in four weeks
- SBCT is completed in five weeks
- IBCT is completed in five weeks

The program uses a NET of the operator conducting field maintenance, limited field service representative (FSR) support during collective training events and establishment of an organic depot for sustainment maintenance to bridge the time from fielding to establishment of a core capability for hardware and software. As part of the routine system assembly, the operator should be familiar with the line replacement unit (LRU) removal and installation procedures. An operator TM and a set of quick reference guides help the operator troubleshoot and replace faulty components. Unit supply evacuates the LRU to its field level forward support, and sustainment maintenance handles the repair of LRU (when applicable) that were replaced at operator level. NW is a rather simple system, and based on analysis, a significant portion of the system (cables, batteries and simple modules) are defined as disposable. This simplifies the need for transport and repair activities.

The end user device (EUD) is a (commercial-off-the-shelf) COTS device that is disposed when broken after proper demil/disposal procedures at the depot. There is no field maintenance outside of simple troubleshooting and replacement of failed components. The depot has limited capability to reload the NW software. The PM plans to use the modernization through spares (MTS) concept to incorporate changes into systems that have been driven by obsolescence and/or new functionality. Future capability improvements will continue to address obsolescence and diminished manufacturing and supply shortages as well as the inclusion of more commercial-based, open architecture technology.

Historically, NET trainers have remained behind upon completion of the NET to facilitate additional training and maintenance of the systems. Today, it is not fiscally sound to maintain this level of support and training. By establishing and training maintainers, the maintainers will assist the unit in establishing independence from outside support for its NW systems.

The maintainer personnel will attend the first three days of NET, and have specific maintainer training on days 4 and 5 of the NET course. Some examples of maintainer's lessons Soldiers may receive can be: reset/reconfigure radios, IP addressing, understanding applications, and identifying and performing software updates. Specific training with a training course from three to five days is established as the NET program of instruction (POI) is finalized.

Mission planner training during NET is given to BCT personnel within the designated as the unit SMEs with the NW mission planner. Soldiers attending NW Mission Planner training receive additional training involving the operation and maintenance of the mission planner. This training includes the development of the unit collective training event scheduled on the fifth day of NET. The unit in NET plans the collective training event by Day Three of training using the mission planning lesson. The unit then can execute the collective training event using the products developed by their Soldiers. The collective training event developed during mission planner training and executed on the last day of NET will be selected from the NET unit mission essential task list (METL). The training event is focused at the company level using the Operation Order (OP ORD) approved by the company commander based upon each unit METL. The material developer (MATDEV) coordinates with the NET unit prior to conduct of the NET to ensure the correct METL tasks are being developed (using the mission planner lessons) and executed (by the NET unit on the last day) during the NET training course.

Training Sets. Units train with the system they are issued prior to NET.

The MATDEV ensures units receive a new materiel information briefing (NMIB) that describes not only NET and the impact upon the unit, but the conduct of DTT 90 to 120 days prior to fielding NW.

The MATDEV develops all NET training products and resources. Training products are delivered as a training support package (TSP), prepared in compliance with TR 350-70 and the Army Learning Model TP 525-8-2 w/C1 06 June 2011, and are verified by MCoE and the TRADOC capability manager - Soldier (TCM-S). The TSP includes, but is not limited to, programs of instruction (POI), lesson plans (LP), technical manuals (TM), quick reference guides (QRG), student handouts, student and instructor guides; individual and collective tasks and a course management plan. The NET leverages the NETTSP package including a complete set of digital training materials. A distance learning site has been created on Army Training Network (ATN) for sustainment training on the operation and maintenance of the NW computer-based training (CBT) and IMI. Additionally, all TMs will be developed electronically and provided to the units by FY 14 as interactive electronic technical manuals (IETM) during NET and posted to the ATN NW training portal TMs are reviewed

after IOTE and during IKPT during the fourth quarter of FY 15.

The NET delivers the unit the materials to facilitate unit sustainment training:

- Training support packages (Army Training Network).
- Tactics, techniques and procedures.
- NW and mission planner operator and maintenance manuals.
- Quick reference guides.
- IMI
- Interactive electronic technical manuals.

New Equipment Training stay behind support. Small logistics groups remain with the newly equipped unit until fielding is complete. These groups assign one logistics assistance representative (LAR) to the unit to facilitate system integration and logistical support.

5.2 Displaced Equipment Training (DET)

NW is a new system and does not replace an existing system or capability. While modification of NW hardware, based on the continued maturation of digital and cell phone technologies and equipment, and application software updates are expected overtime, units do not require extensive training to effect the resulting changes. Software and application updates include relevant and appropriate instructions for use at delivery to fielded units and institutional course managers. In the event of dramatic changes to system form and/or function, final determination is made by proponent lead MCoE, in coordination with the gaining command and PM NW, to determine if replacement of existing systems or software requires extensive formalized planning and training of the displaced system.

5.3 Doctrine and Tactics Training (DTT)

NW dramatically changes the way small units fight and operate digitally within the tactical and mission networks with other enabled leaders. Experience with previously deployed digital leader systems clearly demonstrates that improper or incomplete integration of the system's capability into unit level

developmental and collective training produced lower leader acceptance of the technology, limited usage, and hence reduced operational impact. NW doctrine and tactics training (DTT) provides guidance to commanders, leaders, staff, crews and operators on how to employ the combat capabilities of NW within their tactical operations.

NW DTT occurs within the initial individual, crew, squad, and platoon training progression during the transition from reset to the train/ready phase. It produces trained and certified leaders prior to collective training. DTT products also provide an effective and resource efficient sustainment training (ST) capability for NW-enabled units during the ready and available phases of the sustainment readiness model (SRM). For RC units, DTT is conducted during post-mobilization training, using the same methodology as Active Army units, following completion of unit set fielding and prior to collective training events.

5.4 Training Test Support Package (TTSP)

The training test support package (TTSP) is developed to describe the training strategy for test player personnel participating in operational testing. The program manager (PM), in conjunction with MCoE Soldier Requirements Division (SRD) and Directorate of Training and Doctrine (DOTD), develops an initial TTSP and provides it to the test manager at least 270 days before operational testing (OT). The PM delivers the final TTSP not later than (NLT) 60 days before testing begins. The initial TTSP also supports IKPT as well as user training for OT. The TTSP meets content requirements established in TRADOC Regulation 350-70, Chapter 8-3b.

The training proponent will provide the initial TTSP to the test agency 18 months (540 days) before the test is scheduled. The initial submission will include:

- Approved STRAP
- Training Test Certification Plan
- Training Data Requirement (draft training material)
- Test Resource support requirements (ammunition, manpower, etc.)

The training proponent will provide the final TTSP submissions to the test agency and HQ TRADOC DCS, G3/5/7 (ATIC-SAIS) not later than 60 days after test

player training. The final submission will include:

TTSP will consist of:

- Latest approved STRAP
- Test training certification plan
- Training data collection requirements
- Training Schedule
- Program of Instruction (POI) for each affected Military Occupational Specialty (MOS)/specialty skill identifier (SSI)/area of concern (AOC)
- List of training devices and embedded training components
- Test Resource Support Ammunition, targets, List of facilities and ranges for training
- Field manuals (FM)
- Army techniques and procedures (ATP)
- Combined Arms Training Strategy (CATS)
- Draft Soldier training publications (STP) or changes
- Target audience description
- Lesson plans
- Critical task list
- Draft technical manuals TM
- Risk Assessments with validation

6.0 Institutional Training Domain

NW institutional training will be modular and integrated as assignment oriented training in pre-existing resident courses. This domain includes the centers of excellence and schools, both inside and outside the U.S. Army Training and Doctrine Command (TRADOC).

The following paragraphs (6.1 thru 6.1.3.3) explain the Institutional Training Domain requirements for the NW.

6.1 Institutional Training Concept and Strategy

General. Because NET and the subsequent DTT and any reset training will provide initial qualification of NW personnel, the institution focuses on providing units with a steady stream of qualified replacements. As the NW program matures, training on any new software and equipment upgrades will be incorporated at both unit and institutional training programs. Institutional training will be supported by a combination of embedded (ultimate solution, if available) and stand-alone training systems along with set number of TADSS based on the number of vehicles allocated to TRADOC schools. Input and analysis received from the various NW proponent CoEs actually indicate that 1269 NW systems would be required to support the MCoE Institutional Training domain requirements, as outlined in the matrix in para 6.1.1.3.2 of this STRAP document. The NW institutional training concept is a modular construct that allows significant tailoring of content and delivery means in order to facilitate integration with the diverse set PME and functional courses across the Army. NCOES and OES integrate NW training into their POI. Other TRADOC institutions will integrate specific NW training into their various POIs as required.

Changes to the institutional programs will be performed using the Analysis, Design, Development, Implementation, and Evaluation (ADDIE) process IAW TRADOC Regulation (TR) 350-70, Chapter 6; Section III and TRADOC Pamphlet (TP) 525-8-2 w/Ch 1, 6 Jun 2011; and documented in the TDC database.

6.1.1 Product Lines

The following paragraphs (6.1.1.1 through 6.1.1.5) describe the product lines that will be used to support the Institutional Domain.

6.1.1.1 Training Information Infrastructure

The Global Network Enterprise (GNE) is the centerpiece of the vision for the Army's future training network. It is an overall construct comprised of theater-based network service centers (NSC) that allows the seamless delivery of training capabilities anywhere in the world. NSCs have the capabilities of

an area processing center (APC), which provides information technology services; a theater network operations and security center (TNOSC), which provides network operations and service desk functions; and a regional hub node (RHN), which provides global networking capability via satellite to fiber interface connection pathways. By leveraging the NSCs and employing centralized management, the Army can offer more robust services at lower cost and complexity. Whether in garrison, at a training center, or in the field, network-enabled training services are accessible to operational or generating force with minimal administrative overhead. NW is uniquely capable of leveraging this network training enterprise with a mobile handheld device.

6.1.1.1.1 Hardware, Software, and Communications Systems

NW capability tools include the use of mission scenario development, planning, and reducing a network complex environment through training and educating leaders and Soldiers

NW TSPs are available on the Training Development Capabilities program and Army Training Network. Commercial capabilities can provide access to training products being stored on the Army Knowledge Online (AKO) and other various authorized Web based data locations.

Since NW is digital hardware and software system, the presence and use of this system is essential to building, maintaining individual proficiency and unit collective task/mission accomplishment.

6.1.1.1.2 Storage, Retrieval, and Delivery

Training products will be stored on the Central Army Repository (CAR) [formerly the Reimer Digital Library (RDL)] and within the Training Development Capabilities (TDC) database program, the Distributed Learning (DL) repositories, and the Army Learning Management Systems (ALMS) will store products for use within the institution, unit sustainment, and self-development domains. Additional access to courseware will be available through the Army Training Network (ATN) and AKO "quick-links." On-line training will be the primary means of dL instruction. NW training will be maintained and available to soldiers and units through the Army Training Network website at:

<https://atn.army.mil/TreeViewCStab.aspx?loadTierID=2716&docID=32>

6.1.1.1.3 Management Capabilities

The units will use Digital Training Management System (DTMS) to access approved STP, UTL, and TC for NW. DTMS, an Army program of record, is a web-based planning and management tool that facilitates an organizations ability to plan, schedule, resource, record and report individual and collective training in units, brigade and below.

Other networks supporting training of NW maybe/will include:

Army learning management system (ALMS)

Army training network (ATN)

Army Training requirements and resource (ATRRS),

Distributed Learning System (DLS)

Residential Institutional Training Management Process (RITM)

NW is accessible for distance learning (dL) through the Army Training Network (ATN), as a prerequisite or refresher training and found in the "my Training" tab on the ATN homepage. The ATN link is: <https://atn.army.mil>

6.1.1.1.4 Other Enabling Capabilities

Interoperability and data exchange by the TSS will exist with ATIA, CTIA and LVCG-ITE to support the primary components of the TSS Training Information Infrastructure (TII).

Other enabling capabilities include:

Army Knowledge Network (AKO)

Warfighter Information Network-Tactical (WIN-T)

Joint Training Information Management System (JTIMS)

STRAP Writing Tool (SWT)

Center for Army Lessons Learned (CALL)

Gridded Reference Graphic

Mission, Command, Communications, Computer

US Army enterprise network (US DoD Global Information Grid) (LandWarNet)

Any training products that will be delivered over the web and/or dL the training developer needs to discuss it with TCM-TALDP and TCM-ATIS.

6.1.1.2 Training Products

The PM-SWAR has the responsibility of funding and development of NW training products in accordance with TRADOC and Department of the Army (DA) (Pamphlet and Regulation) 350 series. They include, but are not limited to, comprehensive multimedia course materials i.e. Interactive Multimedia Instruction (IMI) distributed learning and self-development courses and lessons, mission training plans, videos, and other training material needed to train one or more individual and collective task(s) in the institution. MCOE is the approving authority for all training products.

The following sections (6.1.1.2.1 thru 6.1.1.2.4) explain what training products will be required for the NW system in the Institutional Training Domain.

6.1.1.2.1 Courseware

NW TSPs will form the basis of courseware used for institutional training. New courseware shall be provided in electronic format that is TDC and DOD Sharable Content Object Reference Model (SCORM) compliant. Multimedia products must be task based, with data entered into the TDC database, to support sustainment training upon fielding of NW. Products are to be tagged at the task level of detail in compliance with the Advanced Distributed Learning (ADL) initiative.

A level three Interactive Multimedia Instruction, Instruction Interactive courseware (ICW), and Interactive courseware (ICW) computer based training products will be developed by the PM ULCV and available through the ADL network for operator and staff training.

6.1.1.2.2 Courses

Institutional training course requirements will be determined by the respective proponent training developers based on analysis of existing courses and identification of potential training gaps to train the maneuver force. Analysis may result in adding NW modules into existing courses. There is no initial indication that any stand-alone NW courses will be required. The NW final version solution will affect the respective proponent CoEs development of courses and course content for the respective NW variants fielded by the PM-SWAR.

Institutional training within each of the functional and professional courses (Table 3) occurs throughout the CoEs to meet the needs within the BCTs according to the target audience.

MCoE Institutional and Functional Courses affected by Net Warrior.

Institutional Courses	
Course Name	Course Number
Initial Military Training (IMT)	
Radio Operator Maintainer	201-25C10
Radio Operator Maintainer (Reserve Component)	113-25C10 (R)
Signal Support System Specialist	101-25U10
Signal Support System Specialist (Reserve Component)	113-25U10 (R)
Fire Control Repairer	113-91G10
Infantry Basic Officer Leader - Branch	2-7-C20B
Armor Basic Officer Leader - Branch	2-17-C20B
Professional Military Education (PME)	
Maneuver Captain's Career Course	2-7/17-C22
Maneuver Captain's Career Course (Reserve Component)	2-7/17-C23
Maneuver Pre-Command Course	2G-F108
Infantryman Advanced Leader	010-11B30-C45

Course	
Infantryman Advanced Leader Course (Reserve Component)	071-11B30-C45
Armor Crewman Advanced Leader Course	020-19K30-C45
Armor Crewman Advanced Leader Course (Reserve Component)	171-19K30-C45
Cavalry Scout Advanced Leader Course	25019D30-C45
Cavalry Scout Advanced Leader Course (Reserve Component)	171-19D30-C45
Maneuver Senior Leader Course (Infantryman)	0-11/19-C46 (11B)
Maneuver Senior Leader Course (Indirect Fire Infantryman)	0-11/19-C46 (11C)
Maneuver Senior Leader Course (Armor Crewman)	0-11/19-C46 (19K)
Maneuver Senior Leader Course (Cavalry Scout)	0-11/19-C46 (19D)
Radio Operator Maintainer Advanced Leader Course	201-25C30-C45
Radio Operator Maintainer	113-25C-C45
Signal Support System Specialist Advanced Leader Course	101--25U30-C45
Signal Support System Specialist	113-25U30-C45

NW Institutional Training Modules. The NW system training concept includes component training modules designed to deliver, within a blended learning environment, five complementary outcomes: 1) basic system functional proficiency, 2) doctrinally based tactical employment proficiency, 3) branch/MOS-specific applications proficiency, 4) mission command integration and employment proficiency, and 5) Soldier and leadership level skills, knowledge, abilities for designated unit leaders and institutional instructors.

6.1.1.2.3 Training Publications

Manuals. Training will be supplemented with on line and/or hard copy use of Interactive Electronic Technical Manuals (IETM), technical manuals (TMs), Digital Operators Guides (DOG), updated Soldiers Training Products (STP), Soldier's Manual And Trainer's Guide (SM-TG) , Army Doctrine Publication (ADP), Army Regulations (AR), Army Doctrine Reference Publications (ADRP), Army Techniques Publications (ATP), Army Tactics Techniques and Procedures (ATTP), Field Manuals (FM), Soldier Training Publication (STP), and Training Circulars (TC) and digital doctrine, appropriate to the specific organization, provided by TRADOC Schools. Units will incorporate Standard Operating Procedure (SOP) and Tactics, Techniques & Procedures (TTP) developed by Soldiers into their combined arms strategies. Integrated Logistics Support Center (ILSC) TACOM and NATICK ILSC is the primary developer and delivers the technical manuals (TMs) and IETMs. Some examples of these publications are listed below and can be found these at:

<https://armypubs.us.army.mil/index.html>

Army Doctrine Publications (ADP)

- ADP 2-0 Intelligence, Aug 12
- ADP 3-07 Stability (incl C1), Aug 12
- ADP 3-09 Fires, Aug 12
- ADP 3-28 Defense Support of Civil Authorities, Jul 12
- ADP 3-90 Offense and Defense, Aug 12
- ADP 4-0 Sustainment, Jul 12

Army Techniques and Publications (ATP)

- ATP 3-20.98 Reconnaissance Platoon, Apr 13
- ATP 3-39.11 Military Police Special Reaction Teams, Nov 13
- ATP 3-11.36 Multi-Service Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Aspects of Command and Control, Nov 13
- ATP 3-06.20 Cordon and Search Multi-Service Tactics, Techniques, and Procedures for Cordon and Search Operations, May 13

Army Tactics, Techniques and Procedures (ATTP)

- ATTP 3-21.9 SBCT Infantry Rifle Platoon and Squad, Dec 10
- ATTP 3-21.50 Infantry Small-Unit Mountain Operations, Feb 11
- ATTP 3-21.71 Mechanized Infantry Platoon and Squad (Bradley), Nov 11
- ATTP 3-21.90 Tactical Employment of Mortars, Apr 11
- ATTP 3-06.11 Combined Arms Operations in Urban Terrain, Jun 11
- ATTP 3-09.13 The Battlefield Coordination Detachment, Jul 10
- ATTP 3-13.10 Special Forces Special Reconnaissance Tactics, Techniques, and Procedures, Jan 11
- ATTP 3-18.12 Air Assault Operations, Mar 11
- ATTP 3-20.97 Dismounted Reconnaissance Troop, Nov 10
- ATTP 3-20.97 Dismounted Reconnaissance Troop, Nov 10
- ATTP 3-06.11 Combined Arms Operations in Urban Terrain, Jun 11
- ATTP 3-18.12 Air Assault Operations, Mar 11

Field Manuals (FM)

- FM 1 The Army, Jun 05
- FM 3.0 Operations, Jun 01
- FM 3-06 Urban Operations, Oct 06
- FM 3-21.8 The Infantry Rifle Platoon and Squad, Mar 07
- FM 3-21.10 The Infantry Rifle Company, Jul 06
- FM 3-21.11 The SBCT Infantry Rifle Company, Jan 03
- FM 3-21.12 The Infantry Rifle Weapons Company, Jul 08
- FM 3-21.20 The Infantry Battalion, Dec 06
- FM 3-21.21 The SBCT Infantry Battalion (INCL C1), Apr 03
- FM 3-21.38 Pathfinder Operations, Apr 06
- FM 3-21.91 Tactical Employment of Anti-Armor Platoons and Companies, Nov 02
- FM 3-22 Army Support to Security Cooperation (INCL C1), Jan 13
- FM 3-22, CHG 1 Change 1 TO FM 3-22, Jun 13
- FM 3-24.2 Tactics in Counterinsurgency, Apr 09
- FM 3-97.6 Mountain Operations, Nov 2000
- FM 3-22.3 Stryker Gunnery, Mar 06
- FM 3-55.93 Long-Range Surveillance Unit Operations, Jun 09

- FM 3-20.96 Reconnaissance and Calvary Squadron, Mar 10
- FM 3-20.98 Reconnaissance and Scout Platoon, Aug 09
- FM 3-20.971 Reconnaissance and Calvary Troop, Aug 09
- FM 3-90 Tactics July 01
- FM 3-90.1 Tank and Mechanized Infantry Company Team, Dec 02
- FM 3-90.2 The Tank and Mechanized Infantry Battalion Task Force, Jun 03
- FM 3-90.3 The Mounted Brigade Combat Team, Nov 01
- FMI 3-90.5 HBCT Combined Arms Battalion, Mar 05
- FMI 3-90.6 HBCT, Mar 05
- FM 7-0 Train for Full Spectrum Operations, 12 Dec 08
- FM 7-1 Battle Focused Training, Sept 03
- FM 7-15 The Army Universal Task List, Aug 03
- FM 3-39 Police Intelligence Operations, Jul 10
- FM 3-11 Multi-Service Doctrine for Chemical, Biological, Radiological, and Nuclear Operations, Jul 11
 - FM 3-11.5 Multi-Service Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination, Apr 06
- FM 6-02.43 Signal Soldier's Guide, Mar 09
- FM 90-26 Airborne Operations, Dec 90

Soldier Training Publications (STP)

- STP 7-11B24-SM-TG Soldiers Manual and Trainer's Guide, MOS 11B, Infantry, Skill Level 2, 3, and 4, Aug 04
 - STP 7-11C14-SM-TG Soldiers Manual and Trainer's Guide, MOS 11C, Indirect Fire Infantry man, Skill Level 1/2/3/4, Aug 04
- STP 17-19D2-SM Soldier Manual for MOS 19D, Calvary Scout, Skill Level 2, Oct 09
 - STP 17-19D3-SM-TG Soldier Manual and Trainer's Guide, MOS 19D, Calvary Scout, Skill Level 3, Jan 10
 - STP 17-19D4-SM Soldier Manual, MOS 19D, Calvary Scout, Skill Level 4, Jan 10
- STP 17-19AII-OFS-1 Officer Foundation Standards for Armor Company Grade Officers, Volume 1, 19A Captain, Feb 06
 - STP 17-19AII-OFS-2 Officer Foundation Standards for Armor Battalion/Brigade Staff Officer, Volume 2, 19A Captain, Feb 06
- STP 17-19Z-SM Soldier Manual, Armor Senior Sergeant, MOS 19Z, Skill

Level 5, May 11

- STP 17-19K3-SM-TG Soldier Manual and Trainer's Guide M1A1 AND M1A2 SEP Armor Crewman MOS 19K Skill Level 3, Jan 11
- STP 17-19K4-SM Soldier Manual, M1A1 AND M1A2 SEP Armor Crewman MOS 19K Skill Level 4, Feb 11
- STP 34-35F14-SM-TG Soldier Manual and Trainer's Guide for the Intelligence Analyst , MOS 35F, Skill Level 1/2/3/4, Mar 12
- STP 5-12B24-SM-TG Soldier's Manual and Trainer's Guide, MOS 12B, Combat Engineer, Skill Levels 2/3/4, Mar 03
- STP 19-31B24-SM-TG Soldier's Manual and Trainer's Guide, MOS 31B, Military Police, Skill Levels 2/3/4, Jul 12
- STP 3-74D1-SM Soldier's Manual and Trainer's Guide, MOS 74D, Chemical Operations Specialist, Skill Level 1, Apr 06
- STP 11-25A-OFS Officer Foundation Standards (OFS) Manual, AOC 25A, Signal Commissioned Officer, Ranks Second Lieutenant(2LT), First Lieutenant (1LT) and Captain (CPT), Dec 07
- STP 11-25U14-SM-TG Soldier's Manual and Trainer's Guide, MOS 25U, Signal Support Systems Specialist, Skill Levels 1, 3, and 4, Feb 10
- STP 11-25C13-SM-TG Soldier's Manual and Trainer's Guide, MOS 25C, RADIO Operator Maintainer, Skill Levels 1, 2, and 3, Feb 05

Training Circular (TC)

- TC 3-21.8 Infantry Rifle and Mechanized Platoon Collective Task Publications, Aug 13
- TC 3-21.10 Infantry Rifle Company Collective Task Publication, Jun 12
- TC 3-21.12 Weapons and Anti-Armor Company Collective Task Publication, Jul 12
- TC 3-21.20 Infantry Battalion Collective Task Publication, Feb 12
- TC 3-21.90 Mortar Platoon Collective Task Publication, Aug 13
- TC 3-55.93 Long-Range Surveillance Company Collective Task Publication, Aug 13
- TC 7-9 Infantry Live-Fire Training, Sep 93
- TC 7-21 Stryker Driver Training, Dec 06
- TC 7-21.10 Infantry and Weapons Company Guide to Training Aids, Devices, Simulators and Simulations, Jul 09
- TC 7-98-1 Stability and Support Operations Training Support Package, Jun

- TC 3-20.96 Reconnaissance and Calvary Squadron Collective Task Publication, May 12
- TC 3-20.97 Reconnaissance Troop Collective Task Publication, Feb 13
- TC 3-20.98 Reconnaissance Platoon Collective Task Publication, May 12
- TC 2-50.5 Intelligence Officer's Handbook, Jan 10
- TC 90-1 Training for Urban Operations, May 08
- TC 90-5 Training for Reconnaissance Troop and Below in Urban Operations, Feb 10

Technical Manuals (TM)

- TM 10-5895-1942-13&P Operator and Field Maintenance Manual, Jul 13
- TM 10-5895-1944-10 End User Device (EUD) Software User's Manual for SW Version 2.0.3, Nov 13
- TM-10-5895-1943-10 Nett Warrior Mission Planner, Nov 13

Miscellaneous

- Graphic training aids (GTA)
- Quick reference guide (QRG)
- Standard operating procedures (SOP)

6.1.1.2.4 Training Support Package (TSP)

NW fielded consist of a set of multipurpose, individual and unit TSPs for use at the institution and in the self-development program. TSPs for individual training must provide training in the basic NW operation, (such as, tutorials on basic functionality, operation and employment). TSPs for unit training must provide realistic vignettes in increasingly challenging enemy and environmental complexities so units and staffs can practice, rehearse, and train under expected mission conditions. All training and unit TTPs will be developed from lessons learned from units that have used Land Warrior (LW), Ground Soldier Systems (GSS) and NW equipped troop/company missions.

PM SWAR and NW proponent TD will coordinate for development of Individual and unit TSPs. The TSPs will be multimedia, operationally based and where

applicable on a computer based training systems. TSPs will be designed to support effective training for operators and leaders performing unified land operations. For the individual, the package will have a self-development program to support orientation, operational capabilities, functionality, and detailed individual operator training in data entry, moving between menus and screens, and data retrieval. All new courseware will be provided in electronic format that is compliant with the latest version of SCORM.

6.1.1.3 Training Aids, Devices, Simulators and Simulations (TADSS)

TADSS requirements for Nett Warrior will be defined by TRADOC Capabilities Manager (TCM) and coordinated with PM-SWAR and PEO-STRI.

General. The NW PM-SWAR is responsible for the planning, programming, and budgeting for system TADSS, the training developer and proponent. NW will integrate into the Army's current suite of company, platoon and squad simulations and training resources. The NW will leverage training and systems commonality of existing TADSS with potential of significant cost savings. To ensure that training devices are current with the operational system, TADSS will have an open architecture allowing continual software upgrades.

System/Non-System Specific TADSS. Some TADSS requires submitting an amended Capability Development Document (CDD) to ensure acquisition of the device. Training capabilities that will be inserted as technologies mature and enable Soldiers to train as they fight without changing the functionality of their systems. Some of the possibilities of the virtual and live training capabilities may include, but are subject to additional studies and analysis pending decision.

The following sections (6.1.1.3.1 thru 6.1.1.3.5) identify and describe the projected TADSS required for the Nett Warrior in the Institutional Training Domain.

6.1.1.3.1 Training Aids

MCoE / DOTD, Systems Training Branch ensures that training aids to support institutional training in all NCOES and OES courses are available. Training

aids include the following:

- Graphic training aids (GTA)
- Quick reference guides
- Army Game for Training (AGFT)
- Army Low Overhead Staff Trainer (ALOTT)

It is envisioned that NW will evolve into a web-based application. NW-equipped units will be integrated with Dismounted Soldier Training System (DSTS) into Close Combat Tactical Trainer (CCTT) or similar systems as stated in the Capability Development Document (CDD) during future NET and institutional training.

6.1.1.3.2 Training Devices

The program manager designed the NW system so it can connect through software (government owner) or through the Mission Command (MC) system for collective trainers (e.g. DSTS and CCTT as stated in the requirements document). The actual and/or training of NW will be capable of operation in constructive, live and virtual environments, to include Mission Training Complex (MTC) exercises.

6.1.1.3.3 Simulators

Close Combat Tactical Trainer (CCTT). CCTT provides a realistic, virtual, collective unit training environment in which to train and sustain proficiency in Mission Training Plan (MTP) tasks while in a mounted vehicle crew.

Dismounted Soldier Training System (DSTS). DSTS which is connected through the Mission Command channels will provide primary tasks include command and control, maneuver/movement techniques, and fire support. All tasks are performed by a squad and above size element within a stressful, fully task loaded, synthetic combined arms environment in which the training audience must integrate the functions of mission command to support their maneuver battle.

Embedded training (ET). ET is the preferred method for a training capability in the Operational training environment, and is incorporated into the software hand held device. The NW EUD was designed to assist Soldiers with trouble shooting and with maneuvering through all NW applications.

6.1.1.3.4 Simulations

The Program Manager will field the NW system capability to 60 BCTs to enhance MC and dismount operations. NW will become a common system for dismounted Soldiers' and units within the Army culture. Since the Army owns the software rights to the NW system it shall be able to be incorporated into MTCs, CCTTs and any other simulation capability for a dismounted squad. NW is the newest command and control system to accommodate dismounted Soldier operational capability.

NW simulations must support Live, Virtual, Constructive, and Gaming - Integrated Training Environment (LVCG-ITE). Mission Command connections will assure compatible environments to create a seamless ITE which replicates the Operational Environment, sets the conditions for the Army to conduct effective training to develop mission ready Soldiers, Leaders and Units. Simulations will be programmed to realistically replicate the operational environment effects during simulation war-gaming exercises and operations.

NW changes the way battalion and brigade commanders receive critical information which impacts the way commanders and staffs process information to make decisions. Commonality with the software with current combat systems would reduce the requirements for training in the Institutional Training Domain.

6.1.1.3.5 Instrumentation

The NW will be integrated into combat training center (CTC) instrumentation. Live force-on-force (FOF) training at home station, local training areas, maneuver CTC, and deployed training sites are required to validate the ability of units to employ NW within the Global Reaction Force (GRF). NW ensures that there is no interference or masking of systems for home station and CTC training which includes FOF training. Further integration to be determined in

future integration efforts.

- Home station Training Instrumentation
- Joint Training Instrumentation
- CTC Instrumentation
- Digital Range Instrumentation
- Other Service Instrumentation

6.1.1.4 Training Facilities and Land

No impact. The NW is an ensemble worn and operated by dismounted Soldiers. It uses the same training areas, facilities and land currently used by the military for tactical training.

6.1.1.4.1 Ranges

NW software is owned by the Army and all information is able to be passed through the Mission Command network so there will be no impact. The current Army's ranges support training for the NW-equipped Soldier. AR 210-21 also provides the guidance and procedures to ensure ranges train Soldiers realistically and consistently in compliance with current and future doctrine.

The following sections (6.1.1.4.1 thru 6.1.1.4.6) identify and describe the projected Training facilities and land expected for the NW system in the Institutional Training Domain.

6.1.1.4.2 Maneuver Training Areas (MTA)

No additional Maneuver Training Areas required for the NW equipped units.

6.1.1.4.3 Classrooms

Classrooms will continue to be key resources in implementing the Army training strategy, including support to BCT training at home station and in the dL environment. Site visits may be required to determine if the capabilities offered by dL programs and the training network, particularly the hardware and

facilities, are sufficient to CATR training needs. Connectivity and training delivery systems will be capable of direct interfaces with remote databases, tactical engagement systems, and other synthetic training environments to support dL efforts with the opportunity to participate in ITE training as observers or active participants. No additional classrooms are required for the NW Soldiers receiving the training it will be implemented into all PME courses.

6.1.1.4.4 Combat Training Center (CTC)

The use of Combat Training Center does not apply to Institutional Training Domain

6.1.1.4.5 Logistics Support Areas

The CoEs will be responsible for storing, processing, supporting, and staging training products and systems, both classified and unclassified.

6.1.1.4.6 Mission Training Complex (MTC)

MTC will support NW systems for LVCG-ITE simulators and simulations through the mission command network.

6.1.1.5 Training Services

The Army Training Support System (TSS) is the mechanism by which training support enablers are organized. It provides the means for the development, delivery, management, and resource decision making necessary for integrated Armywide training support capabilities.

The following sections (6.1.1.5.1 thru 6.1.1.5.3) identify and describe the projected Training Services in support of the policies established in AR 350-1 required for the NW in the Institutional Training Domain.

6.1.1.5.1 Management Support Services

During System Approach to Training (SAT) development phase, required TSS product line components are developed to meet the training capabilities defined in the STRAP. In addition, the TSS supports the development process itself by providing the Training Information Infrastructures (TII), such as TDC, and management support services that provide the training developer the means to manage and document the actions taken during this and the other four phases of the SAT process.

Information management services.

- Central Army Registry (CAR) [formerly the Reimer Digital Library (RDL)]
- Army Training Information Management Program (ATIMP)
- Library and information repository services

Courseware management services.

- Total Army Training System (TATS) management
- The Training Development Capability <https://tdc.army.mil>
- Distributed Learning (dL) management
- The Army Learning Management System (ALMS)
- The Army Training Network (ATN) <https://atn.army.mil>

Requirements management services

- Range modernization and standardization requirements

Fielded devices tracking systems

- Natick Soldier Systems Center
- Instrumentation

Communicative technologies management

- Department of the Army Multimedia/visual Information Production and Distribution Program (DAMPIPDP) management
- Electronic Multimedia Information Capability (EMIC) management
- Visual information /Training Support Center (VI/TSC) management

Life Cycle Sustainment Plan (LCSP) serves as a living document for those activities responsible for the planning, management, and execution of the NW Integrated Logistics Support (ILS) program. It presents a structured approach for controlling performance and Life Cycle Cost (LCC) and serves as the primary mechanism for planning and executing the Total Life Cycle System Management (TLCSM) program. Operator maintenance for NW shall be performed by assigned instructors/operators (I/O). All other maintenance will be performed by the Natick Soldier Systems Center under a contract logistics support (CLS) contract for the entire system life cycle. The program manager in coordination with the PEO STRI will be responsible for planning, programming, budgeting, and executing LCSP support. Technical data and publications will be required for all NW system and training aids particular items, and operator manuals.

6.1.1.5.2 Acquisition Support Services

Acquisition support services may be required to procure contracted services for the development of training products.

6.1.1.5.3 General Support Services

General Support services will be required for:

- Distribution and replication services
- Video production services
- TADSS development, procurement, distribution, and sustainment

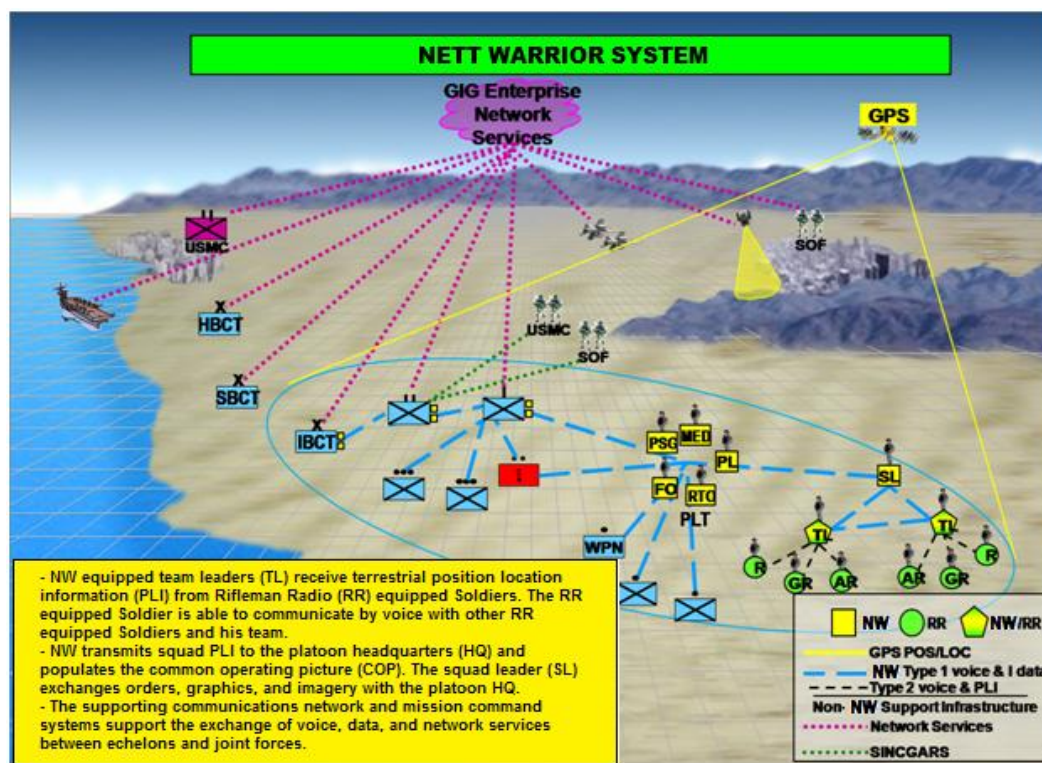
6.1.2 Architectures and Standards Component

The integrated BCT architectures provides relevant operational, systems, and technical, unit set fielding interoperability certification, digital address book development, and technical architecture views that support program synchronization. The NW architecture supports Mission Command configuration development from a training perspective in support of the Institutional Training Domain.

The following sections (6.1.2.1 thru 6.1.2.3) identify and describe the Architectures and Standards required for the NW system in the Institutional Training Domain.

6.1.2.1 Operational View (OV)

Initial OV is representative of the current OV used for distribution of NW systems currently forecasted within a BCT unit structure. It will subsequently be modified, as needed, based upon Army lessons learned and program implementation. The OV is a description of the activities, operational elements, and information exchanges required to accomplish Department of Defense (DOD) missions.



The NW is predominantly assigned to Infantry platoon formations, but also is issued to other formations in the BCT. The operational employment concept is shown for the NW equipped small combat unit at the squad and platoon echelon. In the squad both team leaders (TL), and the squad leaders (SL), are equipped with the NW. At the company echelon all members of the platoon are fielded

with NW. Select Soldiers at echelons above the platoon in other organizations are fielded NW based on their duty positions. NW-equipped units and Soldiers exchange, publish, and subscribe to the Situational Awareness (SA) network services that are resident on numerous manned and unmanned platforms, ground or air vehicles, and other sensors.

6.1.2.2 Systems View (SV)

TSS products are planned, prepared, and developed according to the following operational and technical architectures as applicable: Global Information Grid (GIG), Army training information architecture (ATIA), and Common training instrumentation architecture (CTIA). The NW leverages web technology to interface with the training infrastructure via the tactical internet (TI), a subnet of the TI, or other secure network. All training materials developed by the program manager are developed in the TDC database. Standard accurate data and models of the NW are developed for use in current and future Live, virtual, constructive gaming- Integrating Training Architecture (LVCG-ITE) into simulators and simulations (e.g., the Warfighter's Simulation) in support of the Institutional Training Domain.

LEGEND

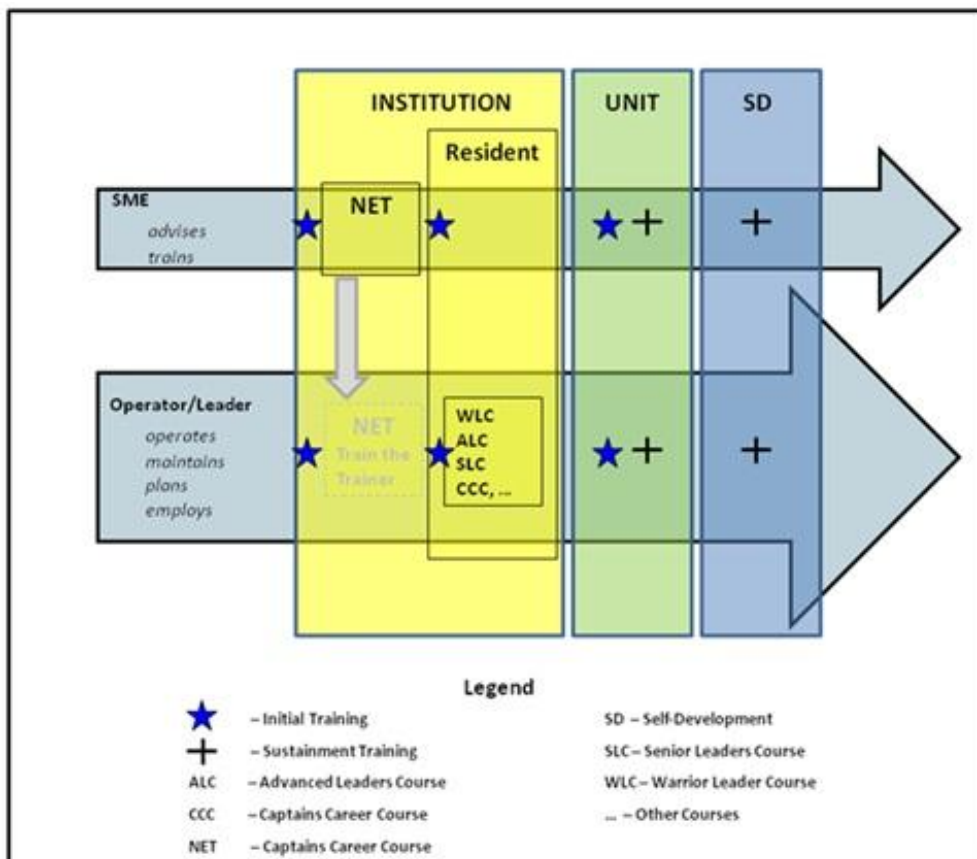
- NW – Net Warrior
- EUD – End User Device
- GPS – Global Positioning System
- PLI – Position Location Information
- JTRS – Joint Tactical Radio System
 - PRR – Production Ready Radio (PRC-154)
 - NWR – Net Warrior Radio
 - SRW – Soldier Radio Waveform

The diagram illustrates the Net Warrior (NW) system architecture. It shows a soldier (Net Warrior) connected to a central system (NW EUD) via a headset or microphone with push-to-talk (PTT) functionality. The central system is powered by a radio battery and includes a spare battery. The system is connected to a network services cloud (SA Network Services) and a GPS satellite. The network services cloud provides network services to the central system. The GPS satellite provides position location information to the central system. The central system also includes a computer/navigation subsystem and antennas. The system is classified as 'Secret & Below Voice & Data' and is labeled as 'Classified - Secret & Below Voice & Data'.

The institutional architecture begins with the new equipment training support package (NETSP) developed by the program manager. The NETSP contains instruction on performing operator and maintainer tasks on the new item, as well as any TTP developed by the institution's combat developer/training developer, associated with the employment of the new item. The NETSP is given to the institution(s), where the Directorate of Training, Doctrine, Combat Development, and Experimentation (DTDCDE), in the case of COEs, provides the package to their training development division for refinement and development of the training support system used in the institution.

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- Joint technical architecture - Army (JTA-A).
- Common operating environment (COE).
- Installation information infrastructure architecture (I3A).
- High-level architecture (HLA).
- Army training information architecture (ATIA).
- Common training instrumentation architecture (CTIA).
- Live, virtual, constructive, gaming and integrating training architecture (LVCG-ITE).
- Standards and specifications for TSS components and subcomponents (e.g., standards and specifications for ranges, targetry, classrooms, etc.).
- Sharable content object reference model (SCORM) or AICC.



6.1.3 Management, Evaluation, and Resource (MER) Processes Component

The following sections (6.1.3.1 thru 6.1.3.3) identify and describe the MER processes required for the NW in the Institutional Training Domain.

Management, evaluation and resource (MER) process components, both internal

and external drivers that guide the development, maintenance, and sustainment of the TSS and are described below.

6.1.3.1 Management

Program management in conjunction with DOTD training development focused the system products that were capable of being used across the institution and training domain and focused only on critical tasks. Training will incorporate the maximum use of simulations to mitigate cost and risk. DOTD will maintain oversight and to evaluate training events and products to determine how best to improve the quality and efficiency of instruction and expenditure of resources. NW will use existing facilities and support infrastructure.

6.1.3.1.1 Strategic Planning

Development and fielding of the NW supports Army Transformation, Army Modernization, and Training Transformation and is consistent with the guidance found in:

- National Defense Strategy
- Joint Vision 2020
- The Army Plan and other Service Plans
- Future Force documentation
- TRADOC supporting plan to the Army Transformation Campaign Plan (ATCP)
- TSS Strategic Plan
- TSS Program Strategy Formulation
- Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel and Facilities (DOTMLPF) Change Recommendation (DCR), Capability Development Document (CDD), and/or Initial Capabilities Document (ICD)

6.1.3.1.2 Concept Development and Experimentation (CD&E)

The NW enhances mission effectiveness and force protection by providing the platoon with better SA through a day-or-night observation to support current and future joint operations. It has been determined that the NW system will be particularly useful in the confined environments characteristic of operations in complex terrain, especially those types to support current and future

direct action operations. Development has been an ongoing process since the initial concept of a handheld system. The development and maturity of the system complies with all JCIDS requirements.

6.1.3.1.3 Research and Studies

The PM-SWAR directs research and studies as required to better meet the Soldier's needs.

6.1.3.1.4 Policy and Guidance

The documents listed below apply to the design, procurement, and use of the NW system:

- AR 350-1 and AR 350-38
- TRADOC Regulations 350-70 and 71-20
- TRADOC Pamphlet 71-20
- TP 525-8-2 w/ Ch 1 (6 Jun 2011)
- Command Training Guidance
- Training Doctrine Manuals (ADP 7-0, ADRP 7-0)
- LOGSA Pamphlet 700-3, Total Package Fielding

6.1.3.1.5 Requirements Generation

This STRAP supports the approved Ground Soldier System (GSS) Increment I (Nett Warrior), approved: 26 October 2010, CDD and its adaption for utilization within the US Army.

6.1.3.1.6 Synchronization

The fielding of NW is synchronized with the following as applicable:

- Unit set fielding
- Army Transformation Campaign Plan (ATCP)
- Implementation Plan for Transforming Department of Defense (DoD)

Training

- TADSS distribution plans.
- Sustainment Command (formerly CASCOC)

- Army Medical Command (AMEDCOM) and The Medical Center and School
- Fires Command (FCoE) Center and School
- Cyber Command Signal Center and School

6.1.3.1.7 Joint Training Support

The fielding of NW is synchronized with the following as applicable:

- Joint Knowledge Development and Distribution Capability (JKDDC)
- Joint Assessment and Enabling Capability (JAEC)
- Joint National Training Capability (JNTC)
- Joint Advanced Distributed Learning C0-Labs
- Joint Professional Military Education (JPME)

6.1.3.2 Evaluation

The following feedback mechanisms described in the following paragraphs will be used to measure, audit, and analyze the efficiency and effectiveness of programmed training. An evaluation team may observe unit operations and sustainment training and conduct interviews, surveys, and complete questionnaires to determine if the proponent is meeting the training needs of the force. If funding is not available, other methods such as mail-out questionnaires/surveys, and/or telephonic interviews will be used to gather needed data. The results of these visits or surveys will be provided to the appropriate training development organization and will serve as a basis for updating and revising institutional, unit, and individual training strategies, programs, instructional materials, and products. All training follow-up evaluations must be directed by the proponent Commanding General/Deputy Commanding General.

The following sections (6.1.3.2.1 thru 6.1.3.2.3) identify and describe the Evaluation processes required for the NW systems in the Institutional Training Domain.

6.1.3.2.1 Quality Assurance (QA)

QA plans will be used IAW each center of excellence and training installation's QA plan Quality assurance (QA). QA includes those planned and

systematic activities necessary to ensure the TSS fulfills requirements for quality. Examples of TSS QA drivers and initiatives include—

- QA programs (e.g., TRADOC, ATSC, Centers, and Schools QA Programs)
- TSS QA plan

6.1.3.2.2 Assessments

As part of the evaluation phase of the Analysis Design Development Implementation and Evaluation (ADDIE) process, Post Fielding Training Effectiveness Analysis (PFTEA) will be conducted. A post-fielding training evaluation ensures the NW trains Soldiers, leaders, and units to standard. The PM-SWAR will fund a PFTEA approximately one-year following FUE.

Assessments are those actions that make a valuation of the TSS and its relevance to the training process. Examples of TSS assessment tools include—

- Training evaluation and analyses
- Strategic Readiness System
- Risk assessment
- Monthly status reports

6.1.3.2.3 Customer Feedback

Customer feedback includes those actions that allow for the evaluative and/or TSS. Examples of tools for TSS customer feedback include—

- Electronic media for surveys, help desks, collaboration
- Interviews
- Focus groups

6.1.3.2.4 Lessons Learned/After-Action Reviews (AARs)

The MCoE will leverage the Center for Army Lessons Learned (CALL) and the Mission Command Knowledge System (MCKS) databases for new TTPs as well as conducting face to face interviews with units/individuals returning from theater to ensure training programs and instruction remain current and relevant. Feedback from CTC rotations that units undergo will be used to obtain input and analysis for any required modifications or changes to Institutional domain training.

- Electronic media for surveys, help desks, collaboration
- Interviews
- Questionnaires
- After action reviews

6.1.3.3 Resource

Program Affordability. The life cycle cost of the NW system is a key factor in determining the Army's ability to provide this critical capability for the NW Soldier.

Life Cycle Cost. The life cycle cost estimates provided in the table below are for developing, procuring, and sustaining Maneuver, Signal and Mission Command CoEs NW training in the institution.

Actual Dollars (TY \$M)		Budget		POM Years					
Lifecycle Cost Category	Prior	FY13	FY14	FY15	FY16	FY17	FY18	FY19	
Procurement	66.56	46.24	58.30	82.84	42.64	51.96	53.21	54.72	
PDSS	0.00	5.65	4.62	3.53	2.70	1.53	1.56	1.59	
Concurrency									
Modification & Upgrade									
O&M									
WCLSOMA									
Maintenance FFP									
Award Fee - FFP									
Operations									
Spares/Components FFP									
Spares/Components T&M									
Contract Costs									
Other WCLS									
Other O&M									
PPSS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IA Sustainment									
Disposal	0.000000	0.000526	0.001139	0.001704	0.002585	0.002953	0.003926	0.004403	
Other O&M Costs	0.00	0.02	10.45	15.76	24.06	28.05	35.24	40.58	

Totals	Prior	FY13	FY14	FY15	FY16	FY17	FY18	FY19
OPA	66.56	51.90	62.92	86.36	45.34	53.49	54.77	56.31
OMA (Other)	0.00	0.02	10.45	15.76	24.06	28.05	35.25	40.59
OMA (WCLS)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Affordability

Rationale: Training developers (TNGDEVs) are needed to develop and maintain the programs of instruction and other outputs of the ALM process. Military personnel will be used in different areas within the training program. Travel/Per Diem represents cost to attend training and reviews; and for four instructors or key personnel to evaluate training prior to operational testing.

Rationale: Classrooms suitable for a group of students with standard electrical power are required for NET.

Rationale: Cost to develop, revise, maintain, and distribute Training Products. Training will includes an additional cost to develop training support plan (TSP) to be used for NET, institutional, operational, and self-development domains.

7.0 Operational Training Domain

The Operational Training Domain is the training activities that organizations undertake while at home station, at maneuver combat training centers (CTCs), during joint training exercises, at mobilization centers, and while operationally deployed. Unit commanders are responsible for proficiency of their Soldiers. This domain equates to assignments in the operational Army and the sustainment readiness model (SRM) process drives the operational force training environment and requirements.

The following sections (7.1 thru 7.1.3.3) explain the Operational Training Domain requirements for the NW system.

Note:

NW TSPs, which use distributed-learning technologies, are directed for development in this document, and originally were designed to support NET and

DTT, also provide cost-effective, multipurpose products to facilitate unit sustainment training. During the crawl phase, NET delivered IMI focusing on familiarization with NW system components and configuration; operating the system to include collaborative planning, digital messaging, and command tools; and system troubleshooting and operator level maintenance provides material to refresh knowledge and practice basic system functions. Online training products are stored on the ATN training and education portal to allow access for Soldiers at home station or deployed.

[7.1 Operational Training Concept and Strategy](#)

Initial Training. NW system will contain operational and maintenance for the system. Initial training for a unit receiving NW training will be conducted by the NETT. The NETT provides a complete stay-behind package to sustain NW knowledge and skills.

Sustainment Training. Sustainment training consists of a mixture of live, virtual, constructive, and gaming with the goal of operator and maintaining Soldier proficiency.

Collective Training. The critical training tasks for each NW equipped unit are determined by the commander and based on his METL Performances of the collective tasks for NW equipped units are detailed in the unit's Combined Arms Training Strategy (CATS) delivered during NET.

[7.1.1 Product Lines](#)

The following product lines are suitable for operational training:

- Web based instruction
- NCOES, and Officer Education System (OES)
- Soldier Training Publications (TSP) for individual training
- TTPs based off lessons learned
- IMI products
-

[7.1.1.1 Training Information Infrastructure](#)

The existing training infrastructure currently used by the supporting proponents will be used to support the storage, retrieval, delivery, and management of TSS products developed by PM SWAR for the NW system.

The following sections (7.1.1.1.1 thru 7.1.1.1.4) explain what is required for the Training Information Infrastructure associated with the NW system in the Operational Training Domain.

7.1.1.1.1 Hardware, Software, and Communications Systems

Commercial capabilities can provide access to training products being stored on the Army Training Network (ATN) and Army Knowledge Online (AKO). ATN is the U.S. Army "one-stop" training portal. The link to ATN is: <https://atn.army.mil>

7.1.1.1.2 Storage, Retrieval, and Delivery

Training products will be stored on the Central Army Repository (CAR) [formerly the Reimer Digital Library (RDL)] and within the Training Development Capabilities (TDC) program. The distributed Learning (DL) repositories and the Army Learning Management Systems (ALMS) will store products for use within the institution, unit sustainment, and self-development domains. Additional access to courseware will be available through the Army Training Network (ATN) and AKO "quick-links".

7.1.1.1.3 Management Capabilities

ADDIE will be used by management to track TSS products. AMTAS will be used to track and update NET. The consolidated database of record (CDBR) maintained by Combined Arms Center (CAC) is the management control tool for approved individual and collective tasks, this is key to tracking TSS products.

7.1.1.1.4 Other Enabling Capabilities

The other enabling capabilities include: ALMS, AKO, Joint Training Information Management System (JTIMS), Mission Command (MC), and Global Information Grid (GIG).

In addition, home-station training allows units to conduct unit-centric, leader-focused, multi-echeloned training with units and staffs located at distant installations. The Integrated Training Environment (ITE) allows units to participate in an expanded variety of training opportunities across multiple organizations and levels of proficiencies. Embedded training is not needed due to the NW system being a handheld device.

7.1.1.2 Training Products

The PM-SWAR has the responsibility of funding the development of comprehensive exportable multimedia-based TSP containing POIs, lesson plans, audio-visual aids, test packages, IMI, and compact discs (CDs).

The following sections (7.1.1.2.1 thru 7.1.1.2.4) explain what training products will be required for the NW system in the Operational Training Domain.

7.1.1.2.1 Courseware

All courses will be available in IMI as exportable media supporting Computer Based Training (CBT) or web-based training hosted on the Army Learning Management System and AKO. Courseware will comply with the Sharable Content Object Reference Model (SCORM).

Manuals. Lessons learned from operational BCT units with NW will be analyzed and the TTPs will be used to support NET and sustainment training. Lessons learned from subsequent unit operations will determine whether or not Army doctrine (ADPs and ADRPs) and collective training tasks require revision.

Interactive Multimedia Instruction. IMI will be task-based for individual and collective training on traditional subject matter (e.g., land navigation) and BCT NW unique system capabilities. It will include task-based training in digitized communication.

Although initial guidance has been given to the TCM-Soldier and PM-SWAR, the final determination has not been made concerning which individual and collective tasks will be selected and developed for IMI. The full range of

media will be explored including Computer Based Instruction (CBI); Computer Based Training (CBT); Compact Disc Interactive (CDI); Interactive Courseware (ICW); Interactive Video disc (IVD); Computer Managed Instruction (CMI); Electronic Performance Support System (EPSS); Game Based Instruction; and other emerging training technologies. The NW system materiel developer (PM-SWAR) has the responsibility to provide the IMI since this is an NW system-specific product. IMI will be refined based on the lessons learned in NET and Operational Test (OT) and combat. Also changes to the NW system and the advent of enhanced multi-media capabilities will influence the development of IMI. The materiel developer will develop all IMI products. IMI verification is the responsibility of the variant Center of Excellence proponent institution.

7.1.1.2.2 Courses

All courses will be operated and maintained in TDC for the institutional domain.

7.1.1.2.3 Training Publications

Training publications are the narrative material, available in printed and/or electronic formats, used by the Army for the purpose of training individuals or units. Publications are available in digital formats and archived in the Army Knowledge Online (AKO) website. Updated Soldiers Training Products (STP), Army Doctrine Publication (ADP), Army Techniques and Procedures (ATP), Army Tactics Techniques and Procedures (ATTP), Field Manuals (FM), Soldier Training Publication (STP), and Training Circulars (TC) and digital doctrine, and other publications are needed to be updated to address the capabilities of NW operational concept. Some examples of these publications are listed below and can be found these at:

<https://armypubs.us.army.mil/index.html>

Army Doctrine Publication (ADP)

- ADP 2-0 Intelligence, Aug 12
- ADP 3-07 Stability (incl C1), Aug 12
- ADP 3-09 Fires, Aug 12

- ADP 3-28 Defense Support of Civil Authorities, Jul 12
- ADP 3-90 Offense and Defense, Aug 12
- ADP 4-0 Sustainment, Jul 12

Army Techniques and Procedures

- ATP 3-20.98 Reconnaissance Platoon, Apr 13
- ATP 3-39.11 Military Police Special Reaction Teams, Nov 13
- ATP 3-11.36 Multi-Service Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Aspects of Command and Control, Nov 13
- ATP 3-06.20 Cordon and Search Multi-Service Tactics, Techniques, and Procedures for Cordon and Search Operations, May 13

Army Tactics Techniques and Procedures (ATTP)

- ATTP 3-21.9 SBCT Infantry Rifle Platoon and Squad, Dec 10
- ATTP 3-21.50 Infantry Small-Unit Mountain Operations, Feb 11
- ATTP 3-21.71 Mechanized Infantry Platoon and Squad (Bradley), Nov 11
- ATTP 3-21.90 Tactical Employment of Mortars, Apr 11
- ATTP 3-06.11 Combined Arms Operations in Urban Terrain, Jun 11
- ATTP 3-09.13 The Battlefield Coordination Detachment, Jul 10
- ATTP 3-13.10 Special Forces Special Reconnaissance Tactics, Techniques, and Procedures, Jan 11
- ATTP 3-18.12 Air Assault Operations, Mar 11
- ATTP 3-20.97 Dismounted Reconnaissance Troop, Nov 10
- ATTP 3-20.97 Dismounted Reconnaissance Troop, Nov 10
- ATTP 3-06.11 Combined Arms Operations in Urban Terrain, Jun 11
- ATTP 3-18.12 Air Assault Operations, Mar 11

Field Manuals (FM)

- FM 1 The Army, Jun 05
- FM 3.0 Operations, Jun 01
- FM 3-06 Urban Operations, Oct 06
- FM 3-21.8 The Infantry Rifle Platoon and Squad, Mar 07
- FM 3-21.10 The Infantry Rifle Company, Jul 06

- FM 3-21.11 The SBCT Infantry Rifle Company, Jan 03
- FM 3-21.12 The Infantry Rifle Weapons Company, Jul 08
- FM 3-21.20 The Infantry Battalion, Dec 06
- FM 3-21.21 The SBCT Infantry Battalion (INCL C1), Apr 03
- FM 3-21.38 Pathfinder Operations, Apr 06
- FM 3-21.91 Tactical Employment of Anti-Armor Platoons and Companies, Nov

02

- FM 3-22 Army Support to Security Cooperation (INCL C1), Jan 13
- FM 3-22, CHG 1 Change 1 TO FM 3-22, Jun 13
- FM 3-24.2 Tactics in Counterinsurgency, Apr 09
- FM 3-97.6 Mountain Operations, Nov 2000
- FM 3-22.3 Stryker Gunnery, Mar 06
- FM 3-55.93 Long-Range Surveillance Unit Operations, Jun 09
- FM 3-20.96 Reconnaissance and Calvary Squadron, Mar 10
- FM 3-20.98 Reconnaissance and Scout Platoon, Aug 09
- FM 3-20.971 Reconnaissance and Calvary Troop, Aug 09
- FM 3-90 Tactics July 01
- FM 3-90.1 Tank and Mechanized Infantry Company Team, Dec 02
- FM 3-90.2 The Tank and Mechanized Infantry Battalion Task Force, Jun 03
- FM 3-90.3 The Mounted Brigade Combat Team, Nov 01
- FMI 3-90.5 HBCT Combined Arms Battalion, Mar 05
- FMI 3-90.6 HBCT, Mar 05
- FM 7-0 Train for Full Spectrum Operations, 12 Dec 08
- FM 7-1 Battle Focused Training, Sept 03
- FM 7-15 The Army Universal Task List, Aug 03
- FM 3-39 Police Intelligence Operations, Jul 10
- FM 3-11 Multi-Service Doctrine for Chemical, Biological, Radiological, and Nuclear Operations, Jul 11
- FM 3-11.5 Multi-Service Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination, Apr 06
- FM 6-02.43 Signal Soldier's Guide, Mar 09
- FM 90-26 Airborne Operations, Dec 90

Soldier Training Publication

- STP 7-11B24-SM-TG Soldiers Manual and Trainer's Guide, MOS 11B, Infantry, Skill Level 2, 3, and 4, Aug 04

- STP 7-11C14-SM-TG Soldiers Manual and Trainer's Guide, MOS 11C, Indirect Fire Infantry man, Skill Level 1/2/3/4, Aug 04
- STP 17-19D2-SM Soldier Manual for MOS 19D, Calvary Scout, Skill Level 2, Oct 09
- STP 17-19D3-SM-TG Soldier Manual and Trainer's Guide, MOS 19D, Calvary Scout, Skill Level 3, Jan 10
- STP 17-19D4-SM Soldier Manual, MOS 19D, Calvary Scout, Skill Level 4, Jan 10
- STP 17-19AII-OFS-1 Officer Foundation Standards for Armor Company Grade Officers, Volume 1, 19A Captain, Feb 06
- STP 17-19AII-OFS-2 Officer Foundation Standards for Armor Battalion/Brigade Staff Officer, Volume 2, 19A Captain, Feb 06
- STP 17-19Z-SM Soldier Manual, Armor Senior Sergeant, MOS 19Z, Skill Level 5, May 11
- STP 17-19K3-SM-TG Soldier Manual and Trainer's Guide M1A1 AND M1A2 SEP Armor Crewman MOS 19K Skill Level 3, Jan 11
- STP 17-19K4-SM Soldier Manual, M1A1 AND M1A2 SEP Armor Crewman MOS 19K Skill Level 4, Feb 11
- STP 34-35F14-SM-TG Soldier Manual and Trainer's Guide for the Intelligence Analyst , MOS 35F, Skill Level 1/2/3/4, Mar 12
- STP 5-12B24-SM-TG Soldier's Manual and Trainer's Guide, MOS 12B, Combat Engineer, Skill Levels 2/3/4, Mar 03
- STP 19-31B24-SM-TG Soldier's Manual and Trainer's Guide, MOS 31B, Military Police, Skill Levels 2/3/4, Jul 12
- STP 3-74D1-SM Soldier's Manual and Trainer's Guide, MOS 74D, Chemical Operations Specialist, Skill Level 1, Apr 06
- STP 11-25A-OFS Officer Foundation Standards (OFS) Manual, AOC 25A, Signal Commissioned Officer, Ranks Second Lieutenant(2LT), First Lieutenant (1LT) and Captain (CPT), Dec 07
- STP 11-25U14-SM-TG Soldier's Manual and Trainer's Guide, MOS 25U, Signal Support Systems Specialist, Skill Levels 1, 3, and 4, Feb 10
- STP 11-25C13-SM-TG Soldier's Manual and Trainer's Guide, MOS 25C, RADIO Operator Maintainer, Skill Levels 1, 2, and 3, Feb 05

Training Circulars

- TC 3-21.8 Infantry Rifle and Mechanized Platoon Collective Task

Publications, Aug 13

- TC 3-21.10 Infantry Rifle Company Collective Task Publication, Jun 12
- TC 3-21.12 Weapons and Anti-Armor Company Collective Task Publication,

Jul 12

- TC 3-21.20 Infantry Battalion Collective Task Publication, Feb 12
- TC 3-21.90 Mortar Platoon Collective Task Publication, Aug 13
- TC 3-55.93 Long-Range Surveillance Company Collective Task Publication,

Aug 13

- TC 7-9 Infantry Live-Fire Training, Sep 93
- TC 7-21 Stryker Driver Training, Dec 06
- TC 7-21.10 Infantry and Weapons Company Guide to Training Aids, Devices,

Simulators and Simulations, Jul 09

- TC 7-98-1 Stability and Support Operations Training Support Package, Jun

97

- TC 3-20.96 Reconnaissance and Calvary Squadron Collective Task

Publication, May 12

- TC 3-20.97 Reconnaissance Troop Collective Task Publication, Feb 13
- TC 3-20.98 Reconnaissance Platoon Collective Task Publication, May 12
- TC 2-50.5 Intelligence Officer's Handbook, Jan 10
- TC 90-1 Training for Urban Operations, May 08
- TC 90-5 Training for Reconnaissance Troop and Below in Urban Operations,

Feb 10

Technical Manual (TM)

- TM 10-5895-1942-13&P Operator and Field Maintenance Manual, Jul 13
- TM 10-5895-1944-10 End User Device (EUD) Software User's Manual for SW

Version 2.0.3, Nov 13

- TM-10-5895-1943-10 Nett Warrior Mission Planner, Nov 13

Miscellaneous Under Development

- Graphic training aids (GTA)
- Quick reference guide (QRG)
- Standard operating procedures (SOP)

7.1.1.2.4 Training Support Packages (TSP)

Training Support Packages (TSP) for all associated training, training material and related courses will be developed in accordance with TRADOC Regulation 350-70, Army Learning Policy and Systems (ALPS), dated 6 December 2011. The ALPS refer to the four TRADOC regulations and pamphlets in the 350-70 series and the Army Learning Model (ALM), TP 525-8-2 w/ Ch 1 dated 6 Jun 2011. Training sources include: the Army Training Network (ATN) at link: <https://atn.army.mil> ; the continuous adaptive learning model as described in TP 525-8-2 describes the framework, required capabilities, and on-going actions to implement a learner centric, technology enabled, and career long learning model by 2015. To learn more about the ALM, research the TED-T ALM page on the ATN in the Training and Education developers' toolbox page.

7.1.1.3 TADSS

Training Aids, Devices, Simulators and Simulations (TADSS) requirements for Nett Warrior will be defined by TRADOC and coordinated with PM-SWAR and PEO-STRI.

- General. The NW PM-SWAR is responsible for the planning, programming, and budgeting for system TADSS, the training developer and proponent. NW integrates into the Army's current suite of company, platoon and squad simulations and training resources. The NW will leverage training and systems commonality of existing TADSS with potential of significant cost savings. To ensure that training devices are current with the operational system, TADSS will have an open architecture allowing continual software upgrades.

- System/Non-System Specific TADSS. Some TADSS require submitting an amended Capability Development Document (CDD) to ensure acquisition of the device. Training capabilities that will be inserted as technologies mature and enable them to allow Soldiers to train as they fight without changing the functionality of their systems. Some of the possibilities of the virtual and live training capabilities may include, but are subject to additional studies and analysis pending selection decision.

The following sections (7.1.1.3.1 thru 7.1.1.3.5) identify and describe the projected TADSS required for the NW in the operational training domain.

7.1.1.3.1 Training Aids

Training Aids are identified in the requirements document and other aids are to be identified and developed during NET development and are available for NET. The NET team will have to certify before they can begin training in the institutional or operational training domains.

7.1.1.3.2 Training Devices

As the program manager fields the NW capability to 32 or more brigades, NW will integrate into the Army's current suite of company, platoon and squad simulations and training resources (e.g. DSTS and CCTT). PM SWAR will ensure TADSS are fielded concurrently with the vehicles. The NW capability is found to be technically unfeasible for a hand held device as NW in the Operational Training environment.

7.1.1.3.3 Simulators

Close Combat Tactical Trainer (CCTT): CCTT provides a realistic, virtual, collective (unit) training environment in which to train and sustain proficiency in Mission Training Plan (MTP) tasks while in a mounted vehicle crew.

Dismounted Soldier Training System (DSTS): DSTS which is connected through the Mission Command channels will provide primary tasks include command and control, maneuver/movement techniques, and fire support. All tasks are performed by a squad and above size element within a stressful, fully task loaded, synthetic combined arms environment in which the training audience must integrate the functions of mission command support their maneuver battle.

Embedded training (ET): ET is the preferred method for training capability of the Operational training environment. Nett Warrior (NW) uses embedded training for all the applications and troubleshooting the system. This capability is Soldier friendly and technically feasible for NW a hand held device in the operational training domains.

7.1.1.3.5 Instrumentation

The NW will be integrated into combat training center (CTC) instrumentation for live force-on-force (FOF) training at home station, local training areas, CTCs, and Digital Multi-purpose Range Complex (DMPRC), or other external interface training verification requirement. The integration will be through mission command channels in future integration efforts.

7.1.1.4 Training Facilities and Land

The NW will not require any new training facilities or any major changes to facilities already in existence.

The following sections (7.1.1.4.1 thru 7.1.1.4.6) identify and describe the projected Training facilities and land expected for the NW system in the Operational Training Domain.

7.1.1.4.1 Ranges

No additional ranges are required for the NW System.

7.1.1.4.2 Maneuver Training Areas (MTA)

No additional Maneuver Training Areas are required for the NW systems.

7.1.1.4.3 Classrooms

No additional classrooms are required for the NW systems.

7.1.1.4.4 CTCs

No additional Combat Training Centers are required for the NW systems.

7.1.1.4.5 Logistics Support Areas

There should be no impact Operational Training Domain supporting Sustainment, Logistics and Maintenance Facilities.

7.1.1.4.6 Mission Command Training Centers (MCTC)

The former term: Battle Command Training Centers (BCTC) has been replaced by: Mission Command Training Complex (MCTC), in accordance with Army doctrine, ADP 3.0. Constructive and Gaming simulations and Virtual simulators must support NW systems network and mission command systems in the Operational Training Domain, from the installation's supporting Mission Command Training Complex (MCTC) facilities.

7.1.1.5 Training Services

The following sections (7.1.1.5.1 thru 7.1.1.5.3) identify and describe the projected Training Services required for the NW systems in the Operational Training Domain.

7.1.1.5.1 Management Support Services

Information management services.

- Central Army Registry (CAR) [formerly the Reimer Digital Library (RDL)]

Courseware management services.

- Total Army Training System (TATS) management
- Multimedia courseware management
- Distributed Learning (DL) management

Requirements management services.

- Range modernization and standardization requirements

Devices management services

- Fielded devices inventory/sustainment and management
 - o Logistics Support Concept: Operator maintenance will be performed by the contractor under a contract logistics support (CLS) contract for the entire system life cycle. The material developer will be responsible for

planning, programming, budgeting, and executing CLS support IAW AR 700-17. CLS contracts require that a one for one replacement for the hand held deices and sub assemblies repair parts be acquired by their contractor prior to delivery.

- o Configuration management and upgrades/modifications including hardware/software will be the responsibility of the material developer for the life cycle of the system.

Other Management services

- Material Army wide Tracking System (MATS)

Communicative technologies management

- Department of the Army Multimedia/visual Information Production and Distribution Program (DAMPIPDP) management
- Electronic Multimedia Information Capability (EMIC) management

7.1.1.5.2 Acquisition Support Services

Acquisition support services will be required to procure contracted services for the development of training products.

7.1.1.5.3 General Support Services

General Support services will be required for:

- Distribution and replication services
- Video production services

7.1.2 Architectures and Standards Component

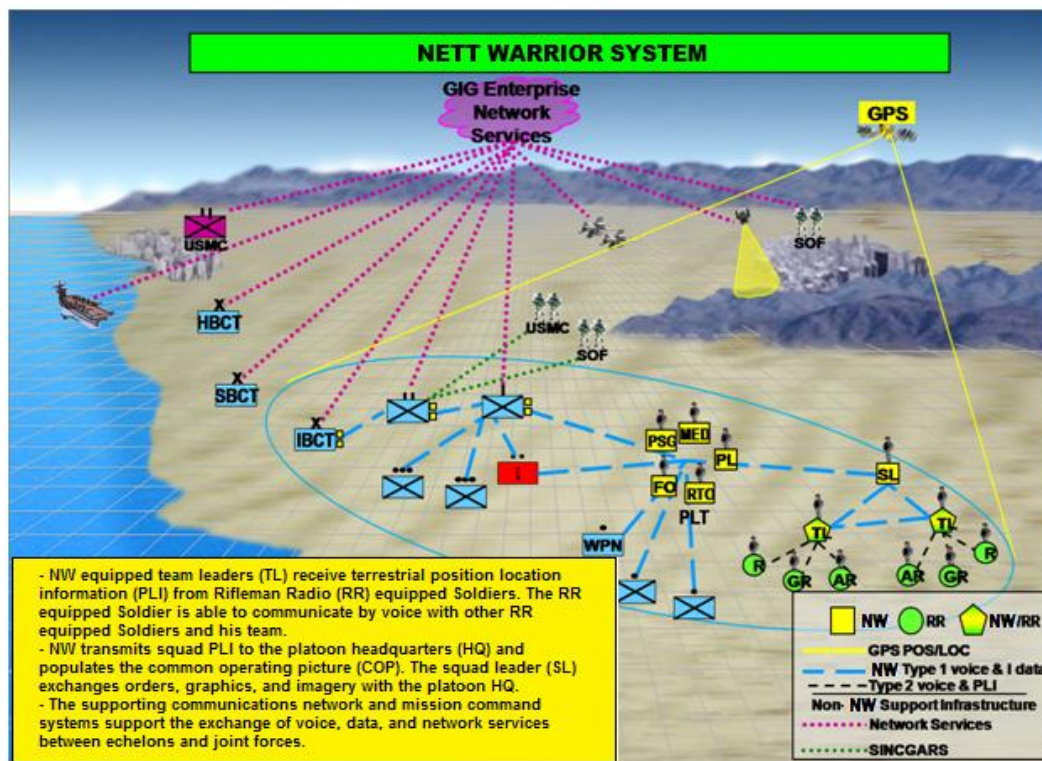
The integrated BCT architecture provides relevant operational, systems, Test & Evaluation (T&E), unit set fielding interoperability certification, digital address book development, and technical architecture views that support program synchronization. The architecture supports NW mission command configuration development from both a super-set and operational facility

perspective. The architecture is the viewpoint of the dismount Squad and Platoon leadership up who receives, processes, transmits, and exploits information and reports. All architectural views are related to how the dismount Soldier interacts with internal and external mission command systems and organizations.

The following sections (7.1.2.1 thru 7.1.2.3) identify and describe the Architectures and Standards required for the NW system in the Operational Training Domain.

7.1.2.1 Operational View (OV)

The Figure 7.1.2.1 graphically displays the NW system High Level Operational Concept. The NW encompasses nine man dismount squad primary mission roles. The NW is intended to be a material solution as the replacement to the Ground Soldier System (GSS) to support the BCT conducting unified land operations.



7.1.2.2 Systems View (SV)

Refer to Appendix A of the Nett Warrior Capability Development Document (CDD)

[7.1.2.3 Technical View \(TV\)](#)

Refer to Appendix A of the Nett Warrior Capability Development Document (CDD)

[7.1.3 Management, Evaluation, and Resource \(MER\) Processes Component](#)

The following sections (7.1.3.1 thru 7.1.3.3) identify and describe the MER processes required for the NW in the Operational Training Domain.

[7.1.3.1 Management](#)

Where possible the NW will use existing facilities and support infrastructure. Training development will focus on producing products that are capable of being used both in the institution and in the operational training domain and focused only on mission critical tasks.

- Students and instructors will routinely be asked to evaluate training events and products to determine how best to improve the quality and efficiency of instruction to provide the best quality of training with the least expenditure of resources.

[7.1.3.1.1 Strategic Planning](#)

The development and fielding of the NW system supports Army Transformation, Army Modernization, and Training Transformation and is consistent with the guidance found in:

- National Defense Strategy
- Joint Vision 2020
- The Army Plan and other Service Plans
- Future Force documentation
- TRADOC supporting plan to the Army Transformation Campaign Plan (ATCP)
- TSS Strategic Plan (when published)
- TSS Program Strategy Formulation (guidance to be published)

[7.1.3.1.2 Concept Development and Experimentation \(CD&E\)](#)

Concept development and experimentation is ongoing under the direction of PM-SWAR during the NW program's test and evaluation phase.

7.1.3.1.4 Policy and Guidance

The documents listed below apply to the design, procurement, and use of the NW system:

- AR 350-1 and AR 350-38
- AR 700-142
- TRADOC Regulations 350-70 and 71-20
- TRADOC Pamphlet 71-20
- TRADOC Pamphlet 525-8-2 w/ Ch 1 6 Jun 2011
- Command Training Guidance
- Training Doctrine Manuals (ADP 7-0, ADRP 7-0)
- LOGSA Pamphlet 700-3, Total Package Fielding

7.1.3.1.5 Requirements Generation

This STRAP supports the NW CDD to which it is attached.

7.1.3.1.6 Synchronization

The fielding of the NW will be synchronized with the following as applicable:

- Unit set fielding
- Army Transformation Campaign Plan (ATCP)
- Implementation Plan for Transforming DoD Training
- TADSS distribution plans.
- Sustainment Command (formerly CASCOT)
- Army Medical Command (AMEDCOM) and The Medical Center and School
- Fires Command (FCoE) Center and School
- Cyber Command Signal Center and School

7.1.3.1.7 Joint Training Support

The fielding of the NW will be synchronized with the following as applicable:

- Joint Knowledge Development and Distribution Capability (JKDDC)
- Joint Assessment and Enabling Capability (JAEC)
- Joint National Training Capability (JNTC)
- Joint Advanced Distributed Learning C0-Labs
- Joint Professional Military Education (JPME)

7.1.3.2 Evaluation

The following feedback mechanisms will be used to measure, audit, and analyze the efficiency and effectiveness of programmed training in the Operational Training Domain.

The following paragraphs (7.1.3.1 thru 7.1.3.3) identify and describe the Evaluation processes required for the NW in the Operational Training Domain.

7.1.3.2.1 Quality Assurance (QA)

QA plans will be used IAW each Operational Training Domain installation's and unit's training QA plan.

7.1.3.2.2 Assessments

As part of the evaluation phase of the Army Learning Policy and Systems process, Post Fielding Training Effectiveness Analysis (PFTEA) will be conducted. The PM-SWAR will fund a PFTEA approximately one-year following FUE.

7.1.3.2.3 Customer Feedback

The following tools will be used to obtain customer feedback:

- Electronic media for surveys, help desks, collaboration
- Interviews and After Action Review (AAR) sessions
- Questionnaires

7.1.3.2.4 Lessons Learned/After-Action Reviews (AARs)

The operational unit commander and trainers will leverage the Center for Army Lessons Learned (CALL) and the Battle Command Knowledge System (BCKS)

databases for new TTPs as well as conducting face to face interviews with units/individuals returning from theater to ensure training programs and instruction remain current and relevant. Unit commanders should maintain contact with the respective centers of excellence to insure the latest training POIs and resources are used in the conduct and support of operational unit sustainment and collective training. Feedback from CTC rotations that units undergo will be used to obtain input and analysis for any required modifications or changes to Operational domain training.

7.1.3.3 Resource Processes

Program Affordability. The life cycle cost of the NW system is a key factor in determining the Army's ability to provide this critically needed capability for the NW Soldier.

Life Cycle Cost. The life cycle cost estimates provided in the table below are for developing, procuring, and sustaining 60 BCTs of NW, including the AETF BN. The JITRs CPD account for JITRs basis of issue/basis of issue plan feeder data (BOI/BOIPFD) costs and related funding for JITRs-capable devices in NW units.

b. Affordability.

Actual Dollars (TY \$M)			Budget		POM Years						
Lifecycle Cost Category			Prior	FY13	FY14	FY15	FY16	FY17	FY18	FY19	
	Procurement		66.56	46.24	58.30	82.84	42.64	51.96	53.21	54.72	
	PDSS		0.00	5.65	4.62	3.53	2.70	1.53	1.56	1.59	
	Concurrency										
	Modification & Upgrade										
	O&M										
	WCLSOMA										
		Maintenance FFP									
		Award Fee - FFP									
		Operations									
		Spares/Components FFP									
		Spares/Components T&M									
		Contract Costs									
		OtherWCLS									
	OtherO&M										
			PPSS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LA Sustainment											
Disposal			0.000000	0.000526	0.001139	0.001704	0.002585	0.002953	0.003926	0.004403	
Other O&M Costs			0.00	0.02	10.45	15.76	24.06	28.05	35.24	40.58	
Totals			Prior	FY13	FY14	FY15	FY16	FY17	FY18	FY19	
OPA			66.56	51.90	62.92	86.36	45.34	53.49	54.77	56.31	
OMA (Other)			0.00	0.02	10.45	15.76	24.06	28.05	35.25	40.59	
OMA (WCLS)			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Rationale: Training developers (TNGDEVs) are needed to develop and maintain the programs of instruction and other outputs of the ALM process. Military personnel will be used in different areas within the training program. Travel/Per Diem represents cost to attend training and reviews; and for four instructors or key personnel to evaluate training prior to operational testing.

Rationale: Classrooms suitable for a small group of students with standard electrical power are required for NET.

Rationale: Cost to develop, revise, maintain, and distribute Training Products. Training will includes an additional cost to develop training support plan (TSP) to be used for NET, institutional, operational, and self-development domains.

8.0 Self-Development Training Domain

Self-development training enhances and expands a Soldier's ability to progress in technical and leadership positions and improves their performance. NW provides self-development opportunities primarily through web-based products and courseware available on the ATN portal. Three of five NW institutional training modules are produced exclusively in IMI format and accessible on ATN: NW System Functional Proficiency Module (NWSFP), NW Doctrine and Tactics Training Module (NWDTT), and NW Branch Specific Applications Module (NWBSA). The availability of these three modules for self-development training also allow Soldiers from non-NW modernized units to complete prerequisite training and certification for identified resident functional courses and senior level OES and NCOES courses where NW proficiency is assumed.

8.1 Self-Development Training Concept and Strategy

Initially, NW leverages the ATN training and education portal to provide its self-development training capability for Distance learning. This up-to-date, self-development training capability is used for NW pre-NET self-development training prior to instructor-led classroom instruction. The portal provides self-development data on NW operation, maintenance, troubleshooting, and leader development. The portal contains the Maintainer and Lesson Plan stay-behind training package to help units maintain their skills and train new NW operators. As the Army's training infrastructure matures, the program expands the self-development activities by leveraging the regional learning centers to support NW self-development training.

8.1.1 Product Lines

The following product lines are suitable for Self Development training:

- Web based instruction
- IMT, NCOES, and Officer Education System (OES) DL products
- Soldier Training Publications TSP for individual training
- Distributed Learning (DL) facilities at home station locations

8.1.1.1 Training Information Infrastructure

Commercial capabilities can provide Web access to training products being stored on Army Knowledge Online (AKO), Army Training Network (ATN), Army Learning Management System (ALMS), and other various locations.

dL resources are available at Distance Learning Centers, Home Station Training Resource facilities, or through Web Based systems that will all contribute to the self-learning training environment of the individual Soldier operator of the NW.

8.1.1.1.2 Storage, Retrieval, and Delivery

NW training products will be stored on the Central Army Registry (CAR) [formerly the Reimer Doctrine and Digital Library]. The dL repositories and the Army Learning Management System (ALMS), Army Training Network (ATN) and Training Development Capability (TDC) will house products developed by the respective institutional proponents for use within institution, operational domain unit sustainment training environment, and the self-development domain.

8.1.1.1.3 Management Capabilities

The consolidated database of record (CDBR) maintained by Combined Arms Center (CAC) is the management control tool for approved individual and collective tasks, this is key to tracking TSS products associated with the NW system training.

8.1.1.2 Training Products

The PM-SWAR has the responsibility of developing comprehensive exportable multi-media based TSPs containing: POI's, lesson plans, audio-visual aids, IMI, and compact disk (CD) training products. These TSPs will serve as the base documents and training data files to build the training products associated with the NW for the self-Development Domain.

8.1.1.2.1 Courseware

- All courses will be available in IMI as exportable media supporting Computer Based Training (CBT) or Web-based training hosted on the ALMS and accessed via ATN. Courseware will comply with the Sharable Content Object Reference Model (SCORM).

- Manuals. Lessons learned from operational BCT units with NW will be analyzed and the TTPs will be used to support NET and self-development and self-learning domain training. Lessons learned from subsequent unit operations will determine whether or not Army doctrine (ADPs and ADRPs) and collective training tasks require revision.

- Interactive Multimedia Instruction. IMI will be task-based for individual and self-learning training on traditional subject matter (e.g., land navigation) and NW unique system capabilities. It will include task-based training in digitized communication.

- Although initial guidance has been given to the TCM-BCTs and PM-SWAR, the final determination has not been made concerning which individual and collective tasks will be selected and developed for IMI. The full range of media will be explored including Computer Based Instruction (CBI); Computer Based Training (CBT); Compact Disc Interactive (CDI); Interactive Courseware (ICW); Interactive Video disc (IVD); Computer Managed Instruction (CMI); Electronic Performance Support System (EPSS); Game Based Instruction; and other emerging training technologies. The NW materiel developer (PM-SWAR) has the responsibility to provide the IMI since this is a NW system-specific product. IMI will be refined based on the lessons learned in NET, Limited User Test (LUT), and Operational Test (OT) and combat. Also, changes to the NW system and the advent of enhanced multi-media capabilities will influence the development of IMI.

- The materiel developer will develop all IMI products. IMI verification is the responsibility of the variant proponent institution.

8.1.1.2.2 Courses

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Course Name	Course Number
Nett Warrior	
Available in the Self Learning Training Domain on the Army Training NetWork (ATNA) .	https://nwtraining.army.mil
Professional Military Education (PME)	
As directed and made available from the respective CoE to the Self Learning Training Domain on the Army Training Network (ATN) . Will be a part of all Non-Commissioned Officer Education System (NCOES) and Officer Education System (OES) Professional Military Education on (PME)	
Functional And ASI	
N/A	

8.1.1.2.3 Training Publications

See paragraph 7.1.1.2.3 and 6.1.1.2.3 for related training publications.

8.1.1.2.4 Training Support Package (TSP)

Training Support Packages for all courses will be developed in accordance with TRADOC Regulation 350-70, Army Learning Policy and Systems (ALPS). Prior to NW institutional fielding, training will be analyzed, designed and developed In Accordance With (IAW) the Army Learning Policy and Systems (ALPS) process outlined in TRADOC Regulation 350-70. The ALPS refer to the four TRADOC regulations and pamphlets in the 350-70 series and the Army Learning Model (ALM), TP 525-8-2 w/ Ch 1 dated 6 Jun 2011. Training sources include: the Army Training Network (ATN) at link: <https://atn.army.mil> ; the continuous adaptive learning model as described in TP 525-8-2 describes the framework, required capabilities, and on-going actions to implement a learner centric,

technology enabled, and career long learning model by 2015. To learn more about the ALM, research the TED-T ALM page on ATN in the Training and Education developers' toolbox page.

[8.1.1.3 Training Aids, Devices, Simulators and Simulations \(TADSS\)](#)

Army Gaming, utilizing VBS2 and VBS3.

[8.1.1.4 Training Facilities and Land](#)

Not Applicable

[8.1.1.5 Training Services](#)

Not Applicable

[8.1.2 Architectures and Standards Component](#)

Not Applicable

[8.1.3 Management, Evaluation, and Resource \(MER\) Processes Component](#)

Not Applicable

A Milestone Annex

A Milestone Annex

Training Development Milestone Schedule - SHEET A		PAGE 1 of 2 PAGES		Materiel Requirements Document	
SYSTEM: Nett Warrior		ACAT 2	OFFICE SYMBOL ATSH-OTY	AS OF DATE 8 March 2013	
POINTS OF CONTACT	NAME	OFFICE SYMBOL	TELEPHONE		
Program Executive Officer Soldier	BG Paul A. Ostrowski		(703) 704-3446		
Product Manager Ground Soldier	LTC Adrian Marsh		(703) 704-3819		
Soldier Division	COL Dan Barnett	ATZB-TS	(706) 545-1316		
Combat Developer	Mr. Kenneth R. Graham	ATZH-CD	(706) 545-8710		
Training Developer:	Mr. Earl Maddox	ATSH-OTY	(706) 545- 9775		
ILSM Manager PM-NW	Mr. Robert Speight		(703) 704-3823		
Supporting Documents	Date	Responsible Agency/POC Office Symbol			
Core Logistics Analysis/Source of Repair Analysis	27 October 2011	Mr. Robert Speight PM Ground Soldier	(703) 704-3823		
Test and Evaluation Master Plan (TEMP)	10 April 2013	Mr. James C. Cooke, ATSC			
Life Cycle Sustainment Plan	18 November 2011	Mr. Robert Speight PM Ground Soldier	703-704-3823		
SMMP:	1 Aug 01	USAIC ARL-HRED and PM Soldier Systems			

Operational Requirement Document (ORD)	10 APRIL 94	Mr. Scott Dickmann, MCOE, SRD, SaaS, Sr. Program Analyst	(706) 545-8313
Capability Development Document (CDD) CARDS # 02095	5 October 2011	Mr. Scott Dickmann, MCOE, SRD, SaaS, Sr. Program Analyst	(706) 545-8313
Capability Production Document (CPD) CARDS # 02095	5 October 2011	Mr. Scott Dickmann, MCOE, SRD, SaaS, Sr. Program Analyst	(706) 545-8313
Training Test Support Package (TTSP):	10 March 2012	Mr. Earl Maddox, DOTD, TDD /ATSH-OTY	(706) 545-9775
BOIP:	6 April 2011	Mr. Michael Jesse, ARCIC Gatekeeper G3/5/7	
New Equipment Training Plan (NETP):	15 August 2012	John Geddes, PM-SWAR MCoE ATSH-OTY	(703) 704-3820
Ground Soldier System (GSS) System Training Plan (STRAP)	5 March 2012	Mr. Thomas Buck, MCoE Infantry & Armor School	(706) 545-5389
Nett Warrior (NW) System Training Plan (STRAP)	Draft Working	Mr. Earl Maddox, DOTD, TDD /ATSH-OTY	(706) 545-9775
Acquisition Strategy For Nett Warrior Production and Deployment Phase	21 June 2013	COL Tim Wallace Product Manager Ground Soldier LTC Adrian Marsh	

		Project Manager Soldier Warrior	
R = Revised / Updated Approved date C = Completed / Approved Date D = Draft			

B References

1. Mission Needs Statement (MNS): Prepared by the U.S. Army Infantry School, was approved by HQDA, on 8 September 1993.
2. Department of the Army approved Operational Requirements Document (ORD) for the Land Warrior (LW) System on 10 April 1994.
3. Capability Development Document (CDD) for Nett Warrior (NW) (Ground Soldier System) Increment I, 2 December 2010 (Version 3.5).
4. Ground Soldier System (GSS), (Land Warrior Block III) System Training Plan, dated 21 November 2005 (Version 5.4).
5. Test and Evaluation Master Plan (TEMP) for the Increment 1, 9 March 2012.
6. Ground Soldier System Training Impact Analysis: Institutional Training and New Equipment Training, dated 29 September 2007.

C Coordination Annex

Organization/POC (Date)	Summary of Comments Submitted (A/S/C)			Comments Accepted/ Rejected						Rationale for Non-Acceptance - S, C
				Accepted			Rejected			
	A	S	C	A	S	C	A	S	C	
v1.2 Army - USAACE - Aviation School 2012/10/19 - 2012/11/18	2	8	0	2	8	0	0	0	0	
v1.2 Army - US Joint Forces Command Net-C2 2012/10/19 - 2012/11/18	No comments submitted.			0	0	0	0	0	0	-
v1.2 Army - TRADOC ARCIC 2012/10/19 - 2012/11/18	No comments submitted.			0	0	0	0	0	0	-
v1.2 Army - TRADOC G-3/5 2012/10/19 - 2012/11/18	No comments submitted.			0	0	0	0	0	0	-
v1.2 Army - TCM- Transportation 2012/10/19 - 2012/11/18	No comments submitted.			0	0	0	0	0	0	-
v1.2 Army - TCM- SBCT 2012/10/19 - 2012/11/18	No comments submitted.			0	0	0	0	0	0	-
v1.2 Army - TCM- Live 2012/10/19 -	No comments submitted.			0	0	0	0	0	0	-

2012/11/18										
v1.2 Army - TCM dL 2012/10/19 - 2012/11/18	No comments submitted.	0	0	0	0	0	0	0	0	-
v1.2 Army - TCM ATIS 2012/10/19 - 2012/11/18	No comments submitted.	0	0	0	0	0	0	0	0	-
v1.2 Army - SIGCoE - Signal School 2012/10/19 - 2012/11/18	Document accepted as written.	0	0	0	0	0	0	0	0	-
v1.2 Army - SCoE 2012/10/19 - 2012/11/18	No comments submitted.	0	0	0	0	0	0	0	0	-
v1.2 Army - PEO-STRI Customer Support Group 2012/10/19 - 2012/11/18	0 4 0	0	4	0	0	0	0	0	0	
v1.2 Army - MSCoE - MANSCEN 2012/10/19 - 2012/11/18	No comments submitted.	0	0	0	0	0	0	0	0	-
v1.2 Army - FCoE - Field Artillery 2012/10/19 - 2012/11/18	Document accepted as written.	0	0	0	0	0	0	0	0	-
v1.2 Army - Combined Arms Center 2012/10/19 - 2012/11/18	No comments submitted.	0	0	0	0	0	0	0	0	-
v1.2 Army - CAC-T; Training Management Dir	6 22 0	6	22	0	0	0	0	0	0	

2012/10/19 - 2012/11/18										
v1.2 Army - AVNCoE Aviation Logistics School 2012/10/19 - 2012/11/18	No comments submitted.	0	0	0	0	0	0	0	-	
v1.2 Army - ATSC TSAID 2012/10/19 - 2012/11/18	No comments submitted.	0	0	0	0	0	0	0	-	
v1.2 Army - ATSC Fielded Devices 2012/10/19 - 2012/11/18	No comments submitted.	0	0	0	0	0	0	0	-	
v1.2 Army - ATSC 2012/10/19 - 2012/11/18	No comments submitted.	0	0	0	0	0	0	0	-	
v1.2 Army - ARNG- RMQ-RA 2012/10/19 - 2012/11/18	Document accepted as written.	0	0	0	0	0	0	0	-	
v1.2 Army - AMEDD Center & School 2012/10/19 - 2012/11/18	No comments submitted.	0	0	0	0	0	0	0	-	
v1.1 Peer - SCoE 2012/07/25 - 2012/08/10	No comments submitted.	0	0	0	0	0	0	0	-	
v1.1 Peer - USASOC 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	0	-	
v1.1 Peer - USAREUR G2 2012/06/27 -	No comments submitted.	0	0	0	0	0	0	0	-	

2012/07/27										
v1.1 Peer - USARCENT G2 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	0	-	
v1.1 Peer - USARC G7 (US Army Reserve Cmd) 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	0	-	
v1.1 Peer - USAACE - Aviation School 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	0	-	
v1.1 Peer - TRADOC_ARCIC 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	0	-	
v1.1 Peer - TRADOC DCS, G-1/4 2012/06/27 - 2012/07/27	No comments submitted	0	0	0	0	0	0	0	-	
v1.1 Peer - TRADOC Command Safety Office 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	0	-	
v1.1 Peer - TCM- Virtual (CS/CSS) 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	0	-	
v1.1 Peer - TCM- SBCT 2012/06/27 - 2012/07/27	126 4 0	32	3	0	94	1	0			

v1.1 Peer - TCM-Live 2012/06/27 - 2012/07/27	0	4	0	0	4	0	0	0	0	
v1.1 Peer - TCM-HBCT 2012/06/27 - 2012/07/27	No comments submitted.			0	0	0	0	0	0	-
v1.1 Peer - TCM-Gaming 2012/06/27 - 2012/07/27	No comments submitted.			0	0	0	0	0	0	-
v1.1 Peer - TCM dL 2012/06/27 - 2012/07/27	No comments submitted.			0	0	0	0	0	0	-
v1.1 Peer - TCM ATIS 2012/06/27 - 2012/07/27	No comments submitted.			0	0	0	0	0	0	-
v1.1 Peer - SIGCoE - Signal School 2012/06/27 - 2012/07/27	No comments submitted.			0	0	0	0	0	0	-
v1.1 Peer - PM-Tactical Vehicles 2012/06/27 - 2012/07/27	No comments submitted.			0	0	0	0	0	0	-
v1.1 Peer - PM-HBCT 2012/06/27 - 2012/07/27	No comments submitted.			0	0	0	0	0	0	-
v1.1 Peer - PEO-STRI Customer Support Group 2012/06/27 - 2012/07/27	5	8	0	5	7	0	0	1	0	

v1.1 Peer - MSCoE - MANSCEN 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - MCoE - Infantry & Armor School 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - MANSCEN-Military Police 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - INSCOM G3 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - IMCOM 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - ICoE - Mil Intelligence School 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - HQDA G3, SPCD 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - HQDA G2 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - FORSCOM/TRADOC LNO	No comments submitted.	0	0	0	0	0	0	-

2012/06/27 - 2012/07/27										
v1.1 Peer - FORSCOM G3 2012/06/27 - 2012/07/27	No comments submitted.			0	0	0	0	0	0	-
v1.1 Peer - FORSCOM 2012/06/27 - 2012/07/27	No comments submitted.			0	0	0	0	0	0	-
v1.1 Peer - FCoE - Field Artillery 2012/06/27 - 2012/07/27	3	2	0	2	2	0	1	0	0	
v1.1 Peer - EUSA G2 2012/06/27 - 2012/07/27	No comments submitted.			0	0	0	0	0	0	-
v1.1 Peer - Combined Arms Center 2012/06/27 - 2012/07/27	No comments submitted.			0	0	0	0	0	0	-
v1.1 Peer - CAC-T; Training Management Dir 2012/06/27 - 2012/07/27	15	38	0	14	38	0	1	0	0	
v1.1 Peer - Brigade Modernization Cmd (BMC) 2012/06/27 - 2012/07/27	No comments submitted.			0	0	0	0	0	0	-
v1.1 Peer - AVNCoE Aviation Logistics School 2012/06/27 - 2012/07/27	No comments submitted			0	0	0	0	0	0	-

v1.1 Peer - ATSC 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - ATEC 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - ARNORTH G3 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - ARNORTH G2 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - ARNG- RMQ-RA 2012/06/27 - 2012/07/27	Document accepted as written.	0	0	0	0	0	0	-
v1.1 Peer - Army Research Laboratory (ARL) 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - Army National Guard 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - Army Material Command (AMC), G3 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - AMC G-8 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-

v1.1 Peer - 84th Training (USAR) 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - 66th MI BDE 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - 513th MI BDE 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - 501st Military Intelligence Bde 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - 500th Military Intelligence Bde 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-
v1.1 Peer - 2nd Infantry Division 2012/06/27 - 2012/07/27	No comments submitted.	0	0	0	0	0	0	-

Key
Completed Review with Comments
Completed Review, No Comments
Active Review Occurring